

Kolegij: Radionica RAP1
Ak. god. 2015/2016. - zimski semestar

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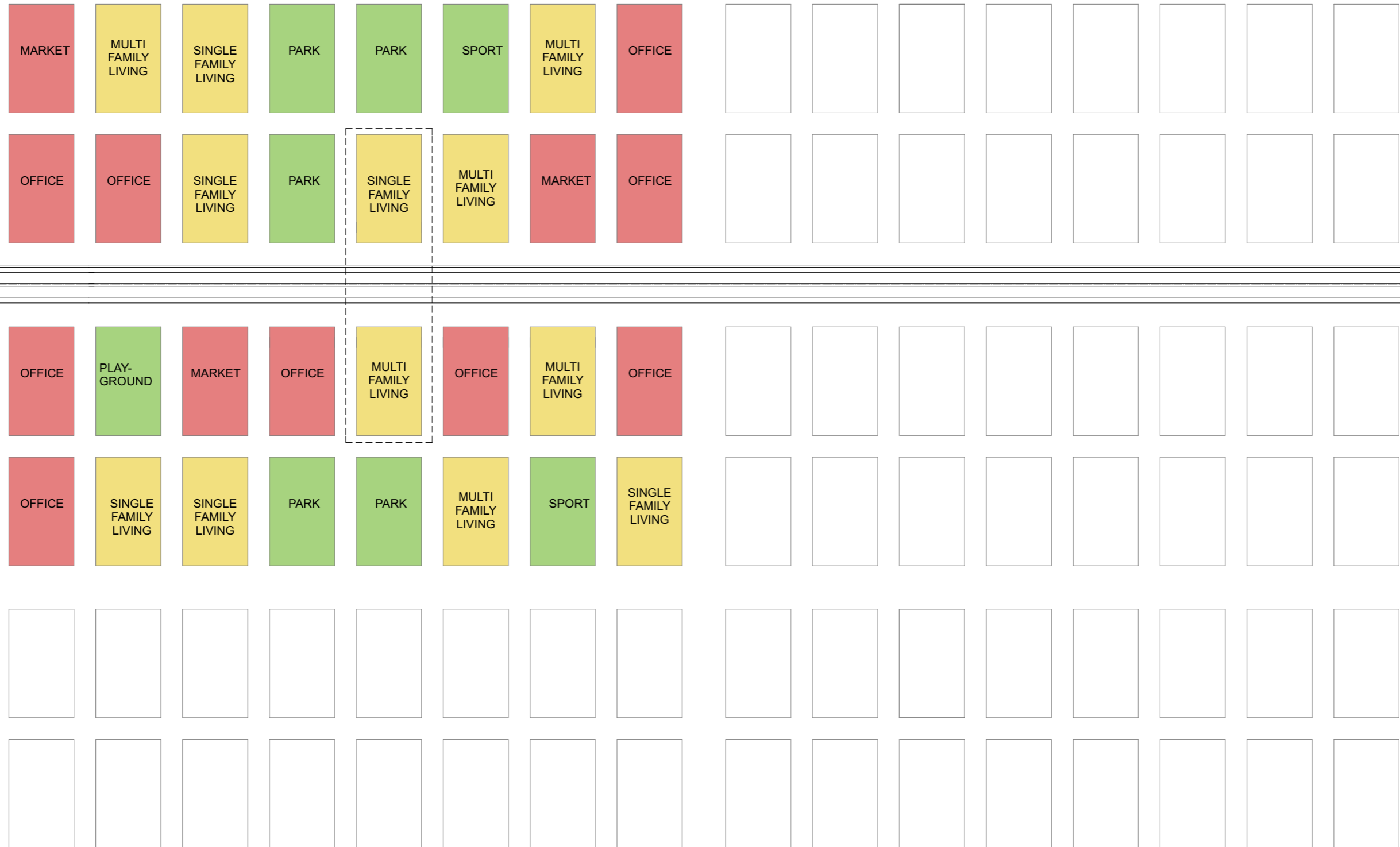
ISOVER Multi-Comfort House Students Contest 2016 - BREST



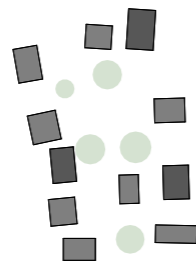
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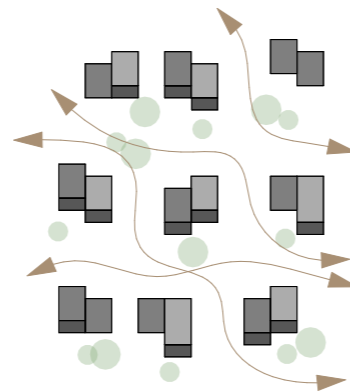
Urbanizam



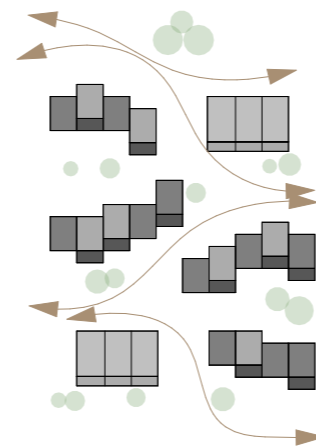
**Momentalna situacija u blizini
buduće nove izgradnje**



**Plot 01
("low density")**



**Plot 02
("medium density")**



Koncept

Sukladno projektnom zadatku interes našeg djelovanja odnosio se na dva središnja zadana plota koje dijeli glavna velika prometnica. Sjeverni plot, odnosno Plot 1 zahtijevao je nižu gustoću izgradnje obilježenu obiteljskim kućama. Južni plot, odnosno Plot 2 treba imati veću gustoću, što zahtijeva stambene zgrade sa mješovitim uslužnim sadržajima. Sukladno tome cilj našeg zahvata u prostor bio je kontinuirani nastavak razvoja tog dijela grada. U neposrednoj blizini nalaze se obiteljske kuće u pravilnoj urbanističkoj matrici, male gustoće. Naš projekt nastavlja se na to tako da se u svaki plot dozira određeno povećanje gustoće spajanjem stambenih jedinica prvo u duplekse, a zatim u stambene zgrade. Tako sjeverni plot organiziramo kao visoko uređeno naselje male gustoće smješteno unutar parka kojim dominiraju staze i vegetacija koje zadržavaju memoriju na sadašnju gustu šumu koja se nalazi na tom području i omogućuje svakom stanu privatnost. Podizanjem malih brežuljaka ispred vrtova stanova i zasađivanjem istih svakom stanovniku je osigurana privatnost. Od buke dijelimo stanovnike u stambenim jedinicama (dupleksima) visokom lamelom koja se proteže cijelom širinom naselja. Ona stanovnicima nudi sadržaje kao što su biblioteka, trgovine, kafići, restorani, poslovni prostori i na zdnjoj etaži stanovi. Posebnu pažnju posvetili smo invalidima te im organizacijom stanova i njihovim smještajem u prostoru omogućili pristupačnost i jednostavnost korištenja prostora. Maksimalna katnost jedinica u sjevernom plotu je P + 2. Unutar plota nalazi se i zajednička podzemna garaža. Prelaskom na južni plot, Plot 2, distancu i zaštitu od buke zbog izuzetno jake prometnice opet ostvarujemo velikom lamelom koja je u cijeloj širini plota te zajedno sa sjevernom lamelom tvori čvrsto pročelje jake prometnice. Unutar iste se nalaze slični sadržaji kao i u sjevernom plotu koji korisnicima omogućuju blizinu uslužnih sadržaja potrebnih za svakodnevn život. Ambijent prostora zadržavamo prirodnim i u čovjekovom mjerilu vegeacijom, parkovnim doživljajem protora ponovno sa brežuljcima koji čuvaju privatnost stanovnika te oblikovanjem staza koje omogućuju brzo i ugodno kretanje kroz naselje. U južnom plotu imamo četiri zgrade koje nastaju umnožavanjem stambenih jedinica iz sjevernog plota, te dvije visoke zgrade katnosti P + 4 koje daju jedan urbaniji karakter naselju. Mješanjem dugih zgrada niske katnosti i razigrane fasade, visokih zgrada sa dinamičnom fasadom od pomičnih panela i dugom lamelom ostvaruje se znatna razlika od sjevernog plota i gustoća se znatno povećava, ali ne naglo i potpuno kontrastno već umjereno zadržavanjem zajedničkih prirodnih značajki. Sve stambene jedinice unutar oba naselja su energetske razred A+, s posebnom pažnjom posvećenoj prirodnim izvorima energije postavljanjem solarnih panela na krovove i fasade, geosondi, protustrujnih izmjenjivača, dobrom orijentacijom prostorija, zimskih vrtova i svemu što čini život stanara maksimalno ugodnim i zdravim.



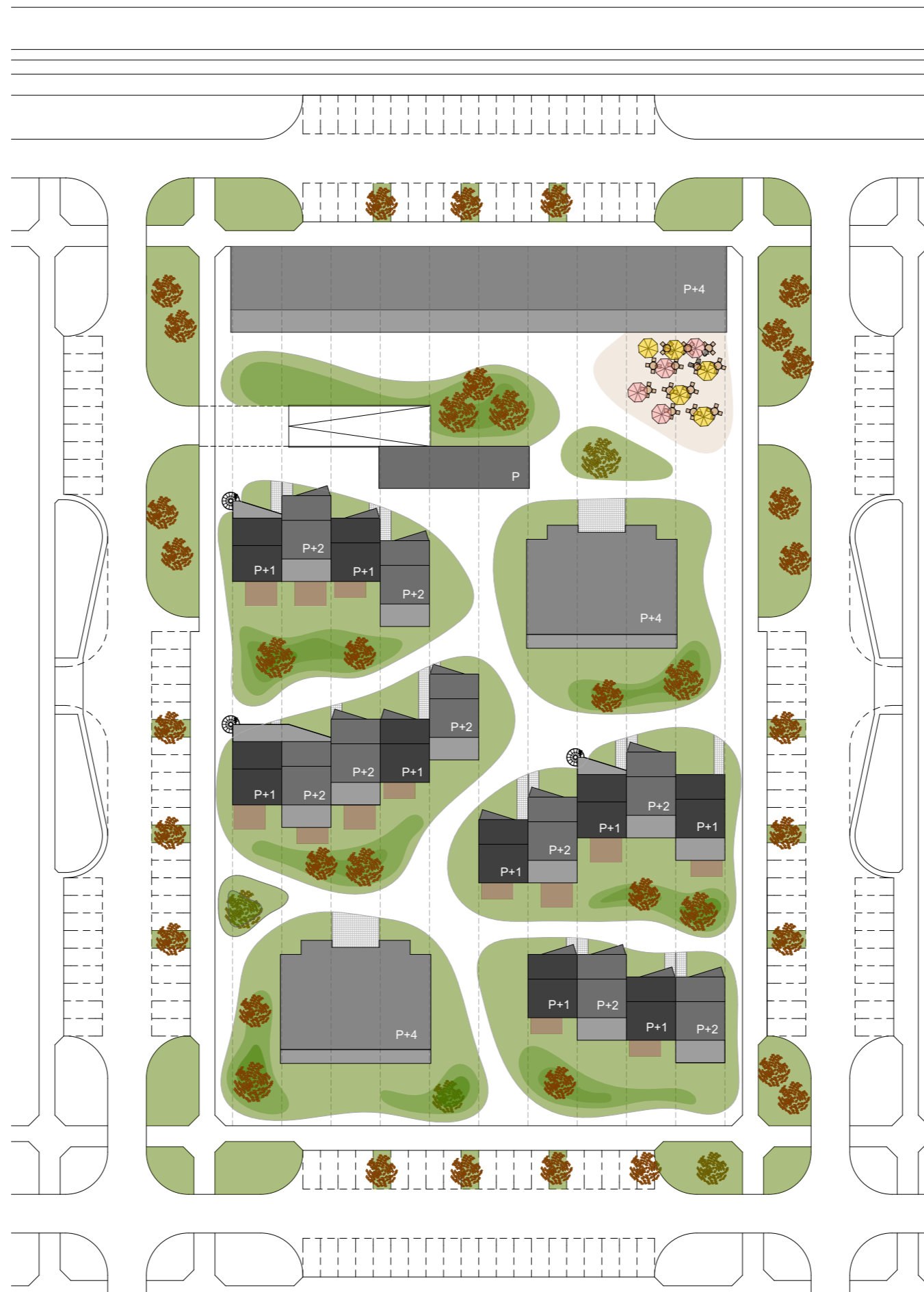
Situacija Plott 01_M500





Prizemlje Plott 01_M500





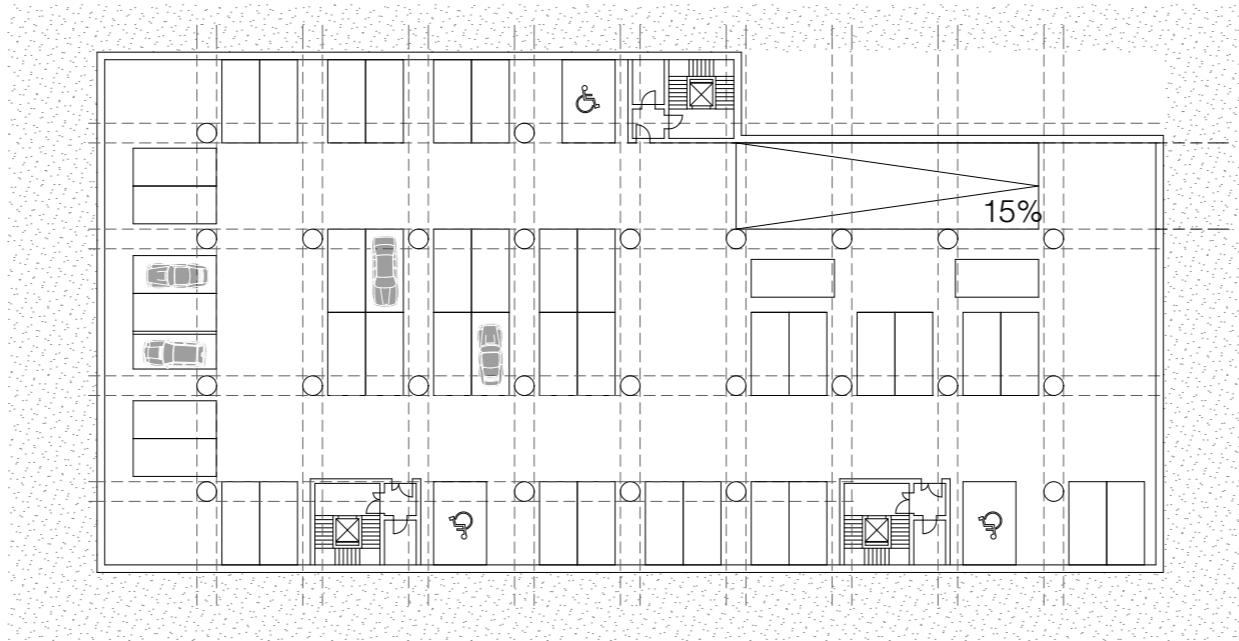
Situacija Plott 02_M500



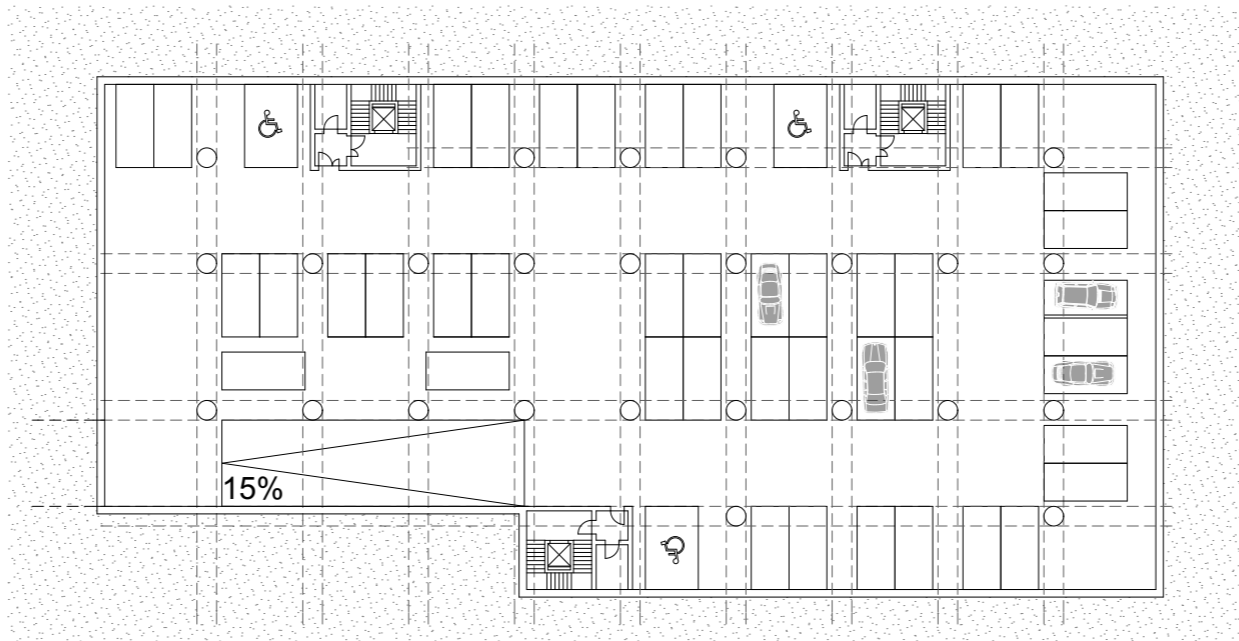


Prizemlje Plott 02_M500



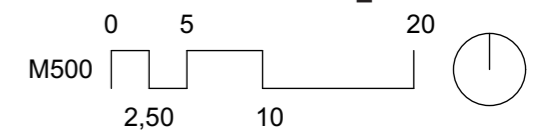


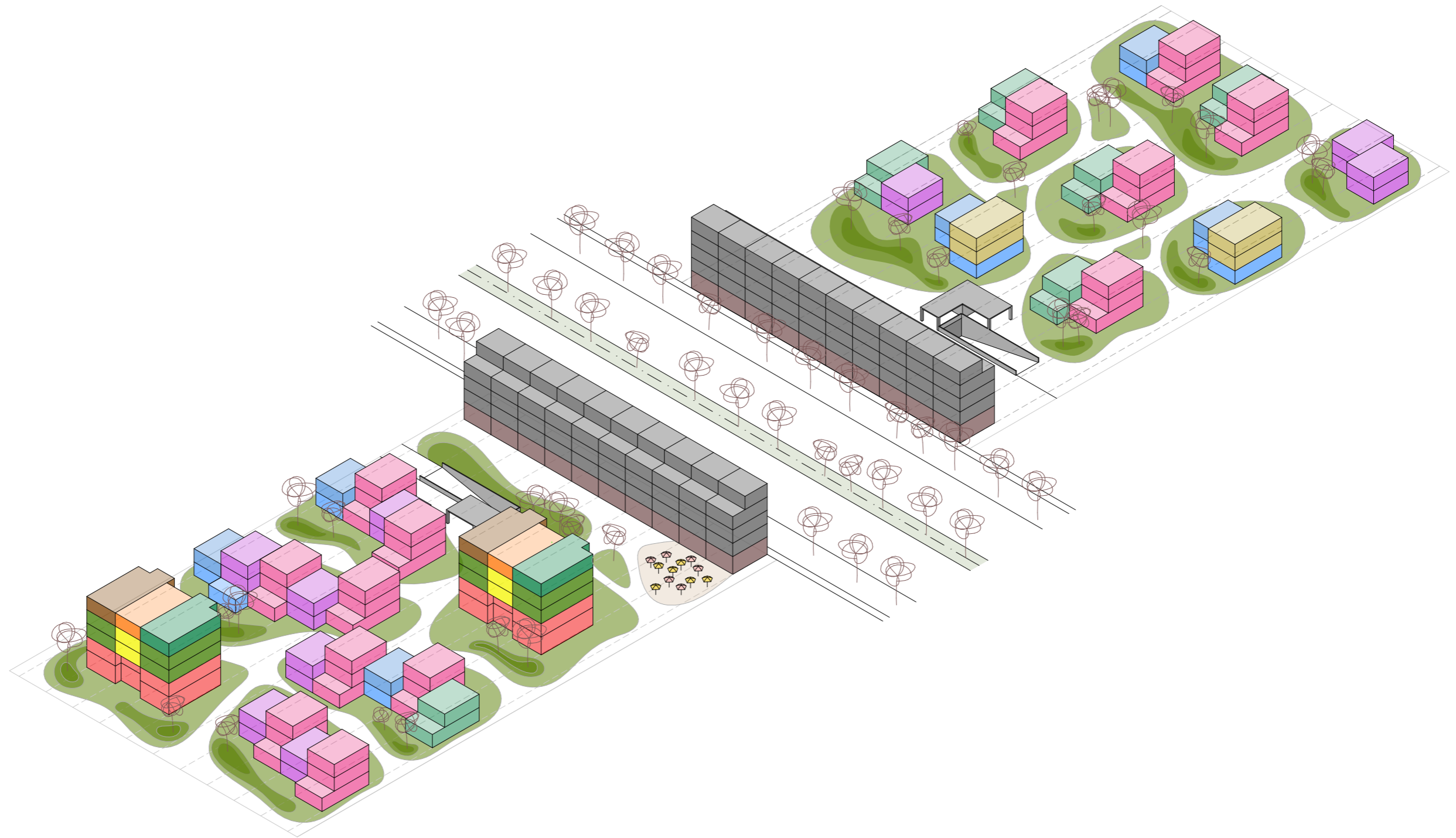
Plott 01



Plott 02

Garaže Plott 01 & Plott 02_M500



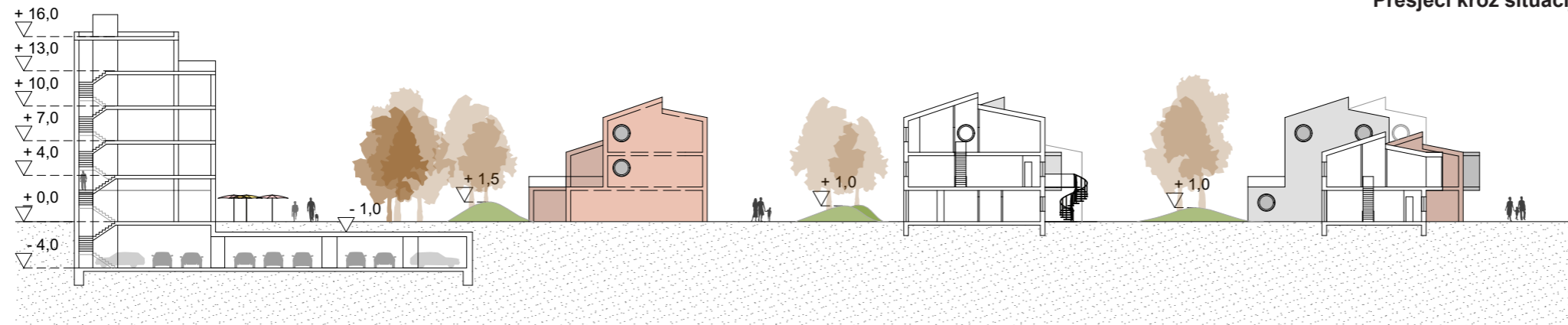


Izometrija 01_M1000

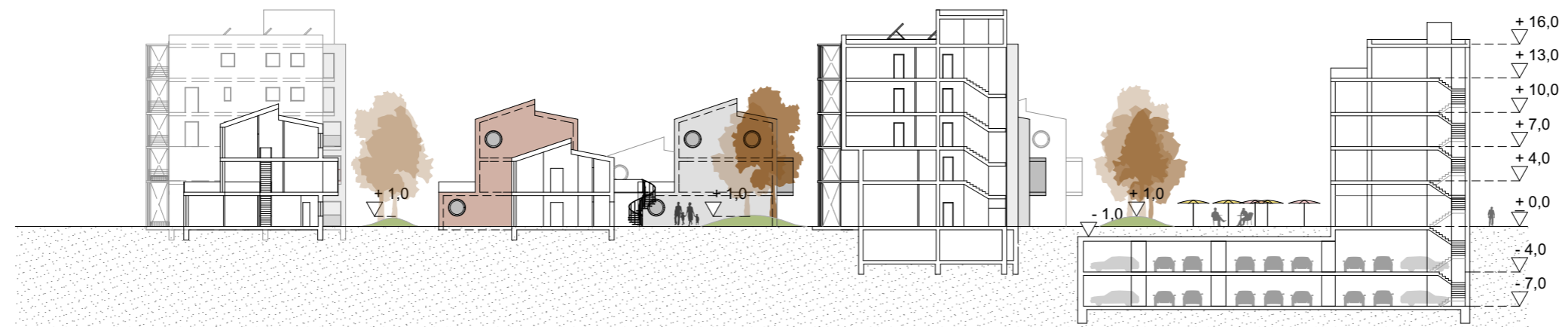


Izometrija 02_M1000

Presjeci kroz situaciju_M500



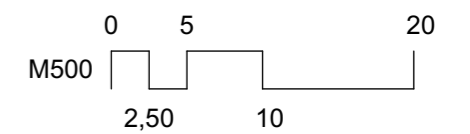
Presjek AA Plott 01



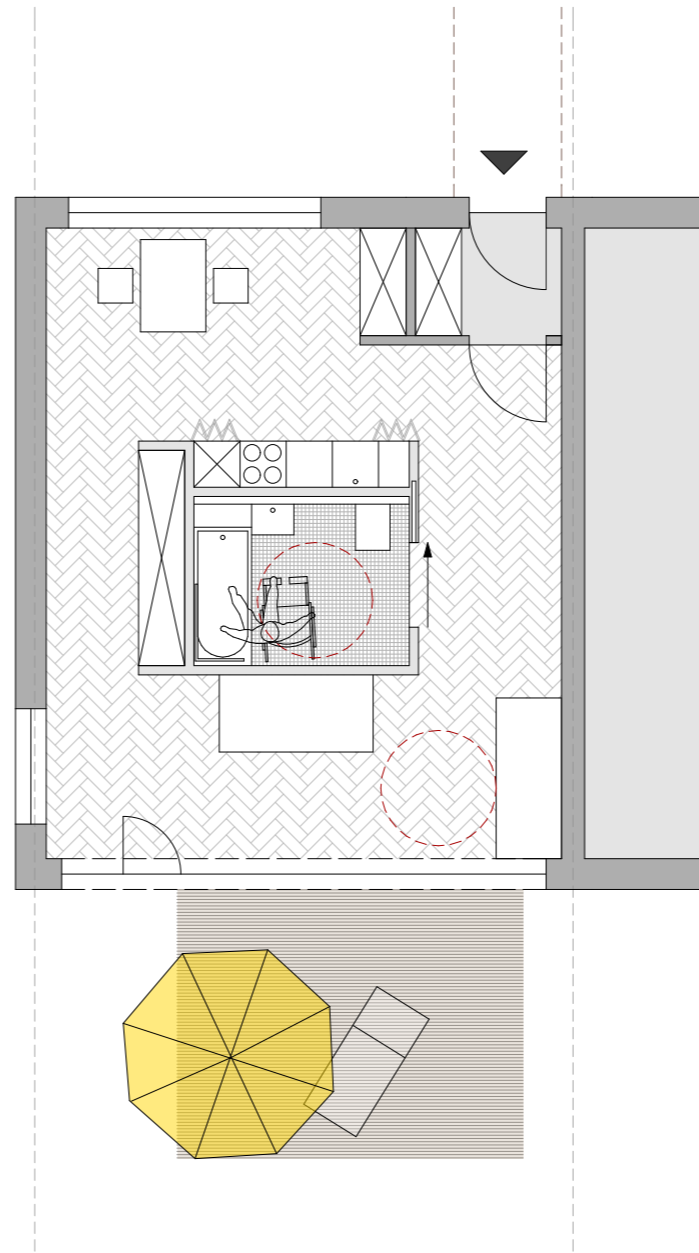
Presjek AA Plott 02



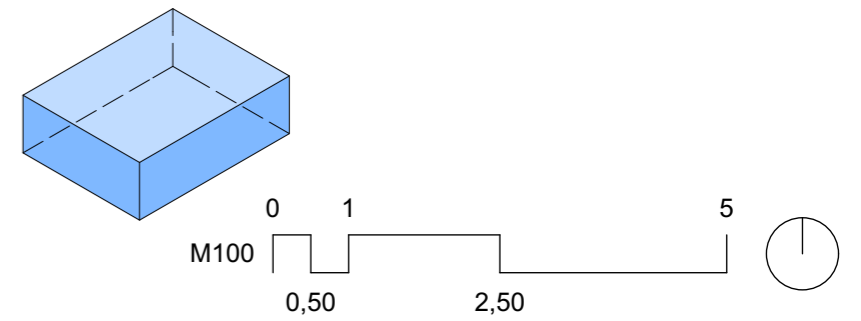
Presjek BB Plott 02

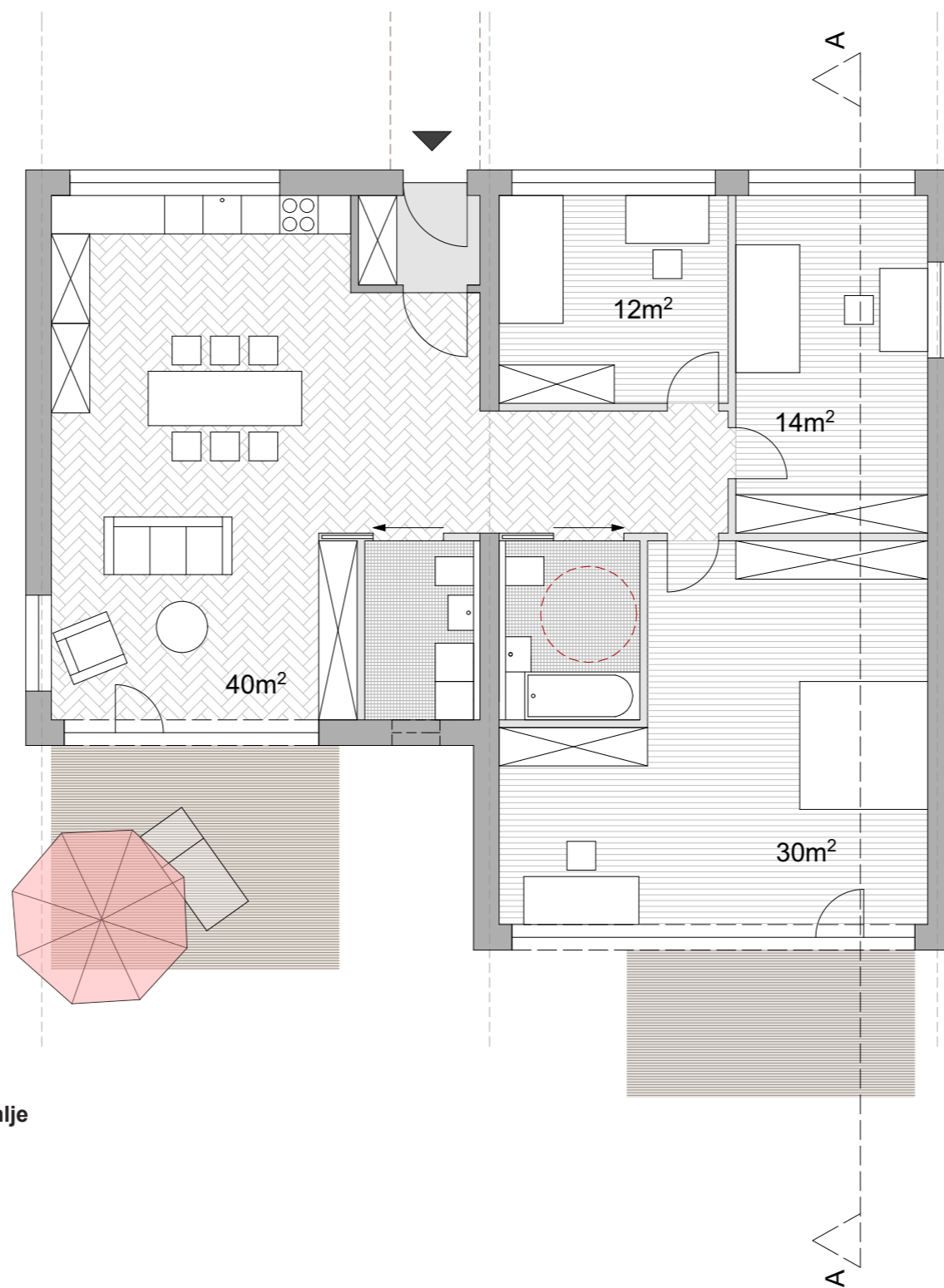


Tlocrti Tip A_M100

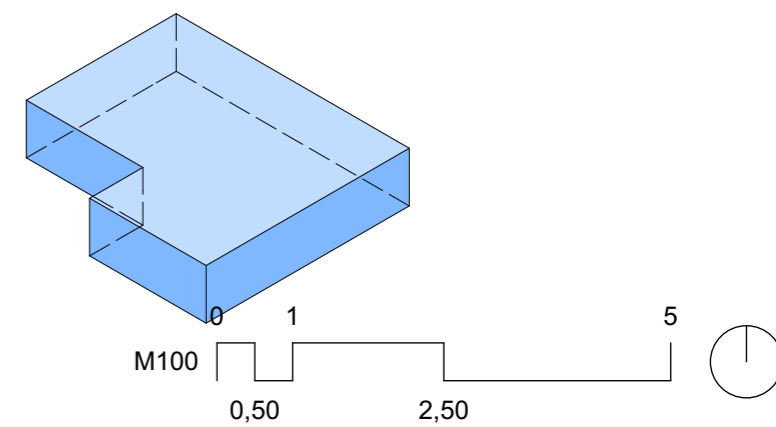


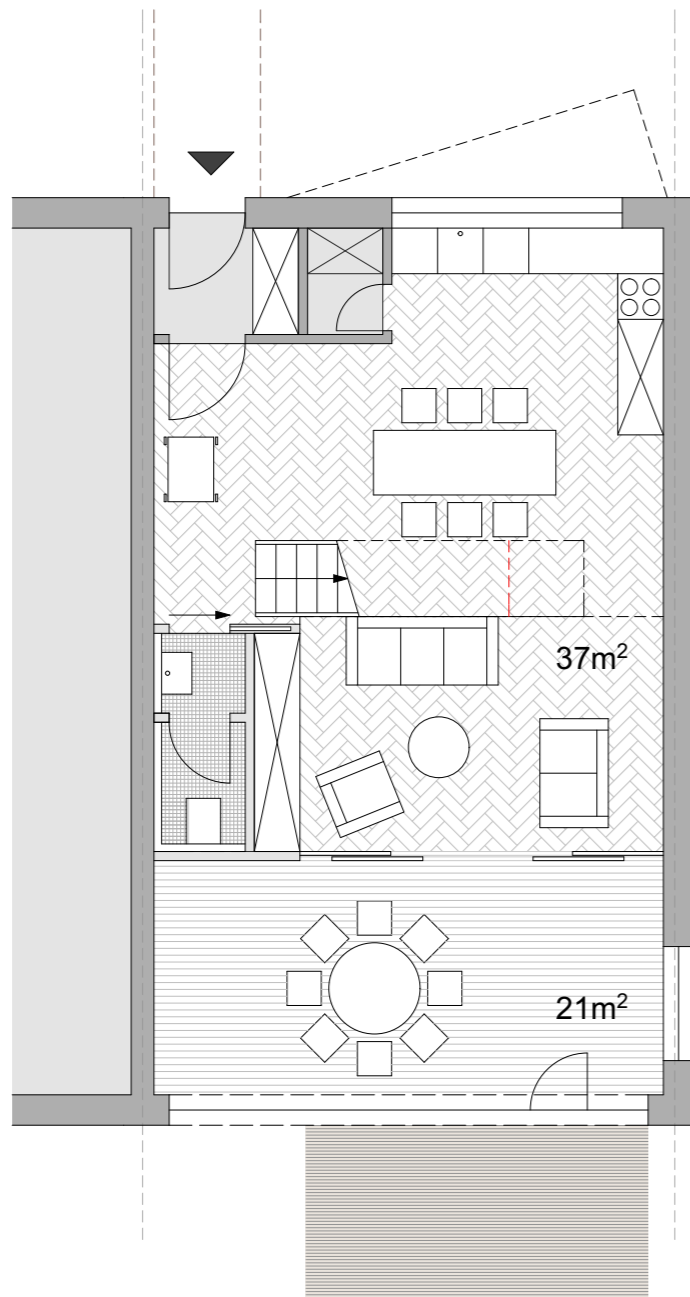
Tip A_01 Prizemlje



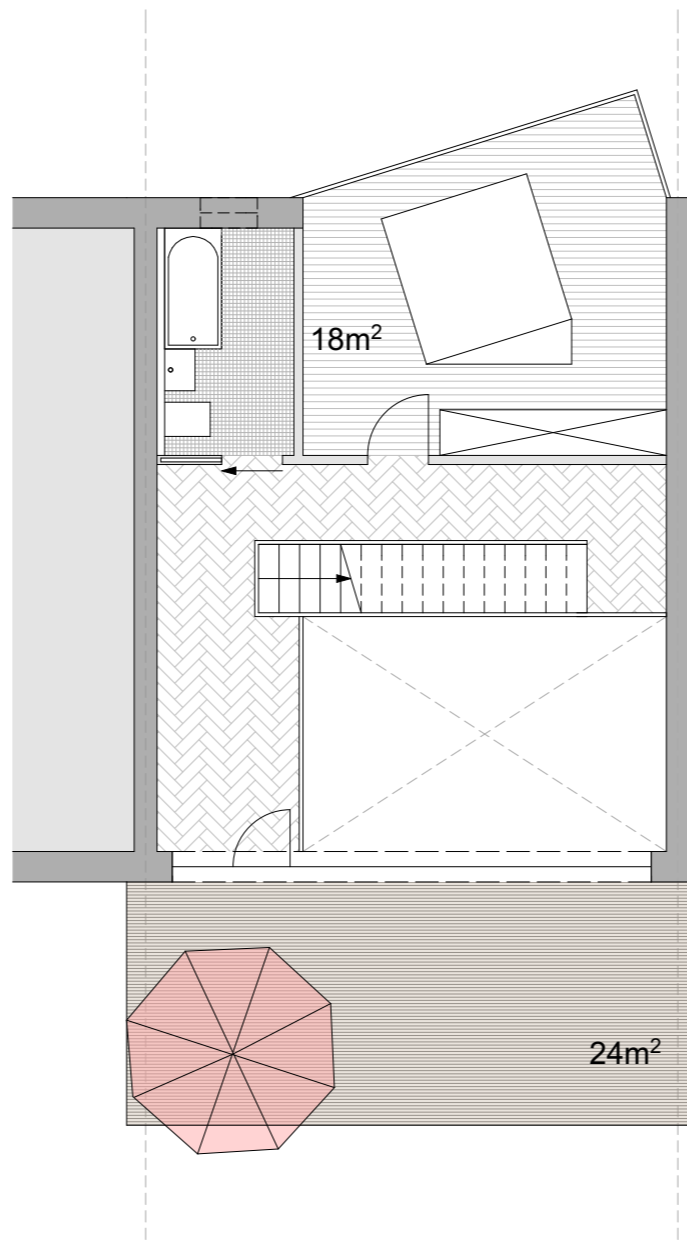


Tip A_02 Prizemlje

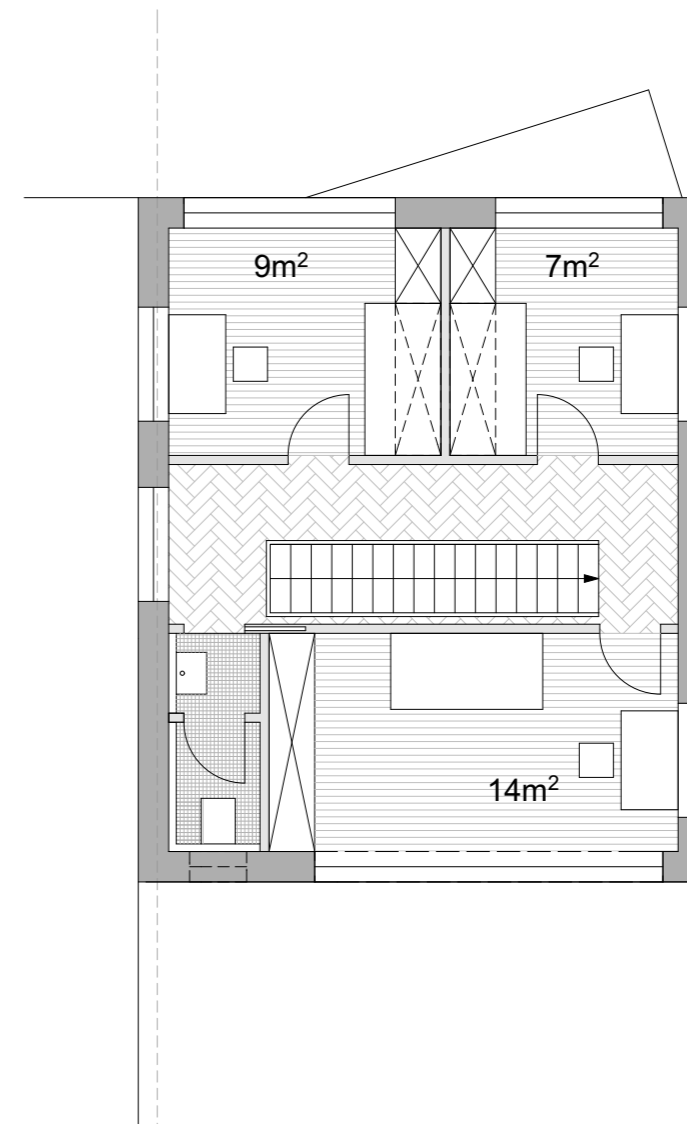




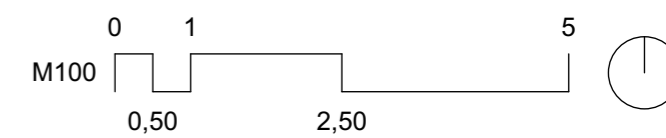
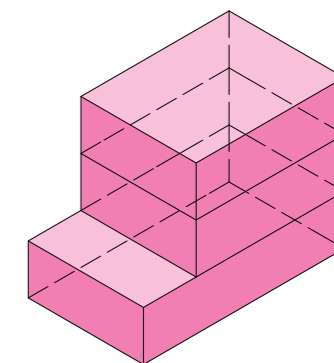
Tip A_03 Prizemlje

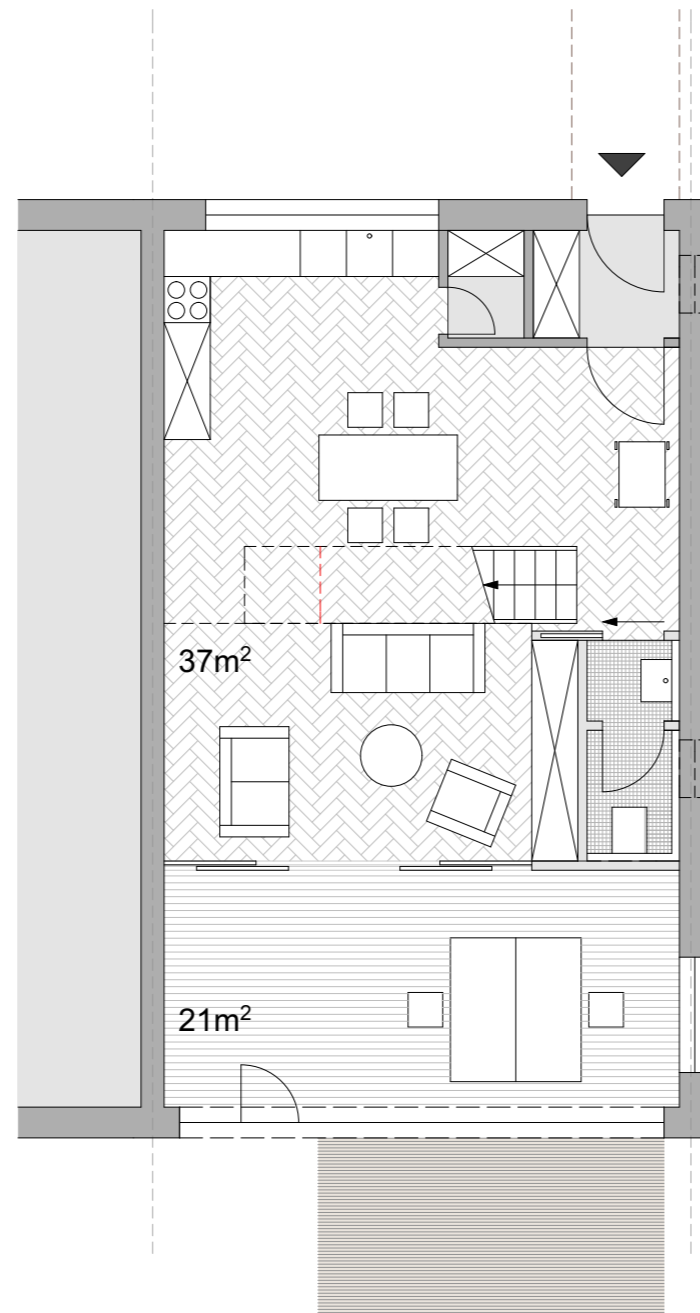


Tip A_03 1. Kat

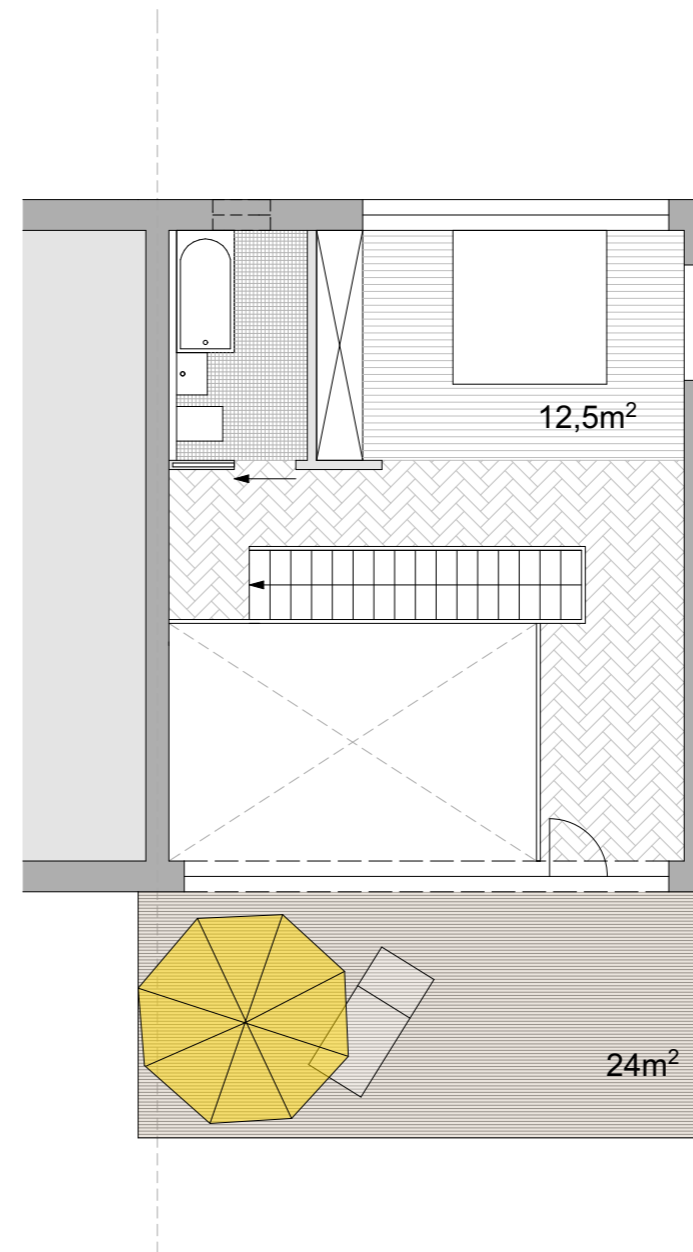


Tip A_03 2. Kat

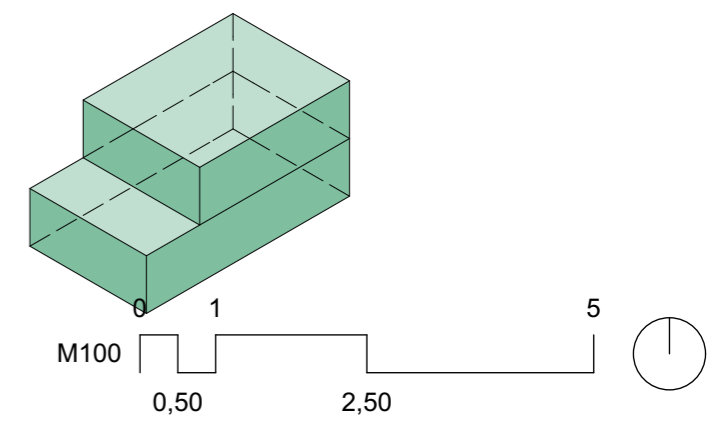


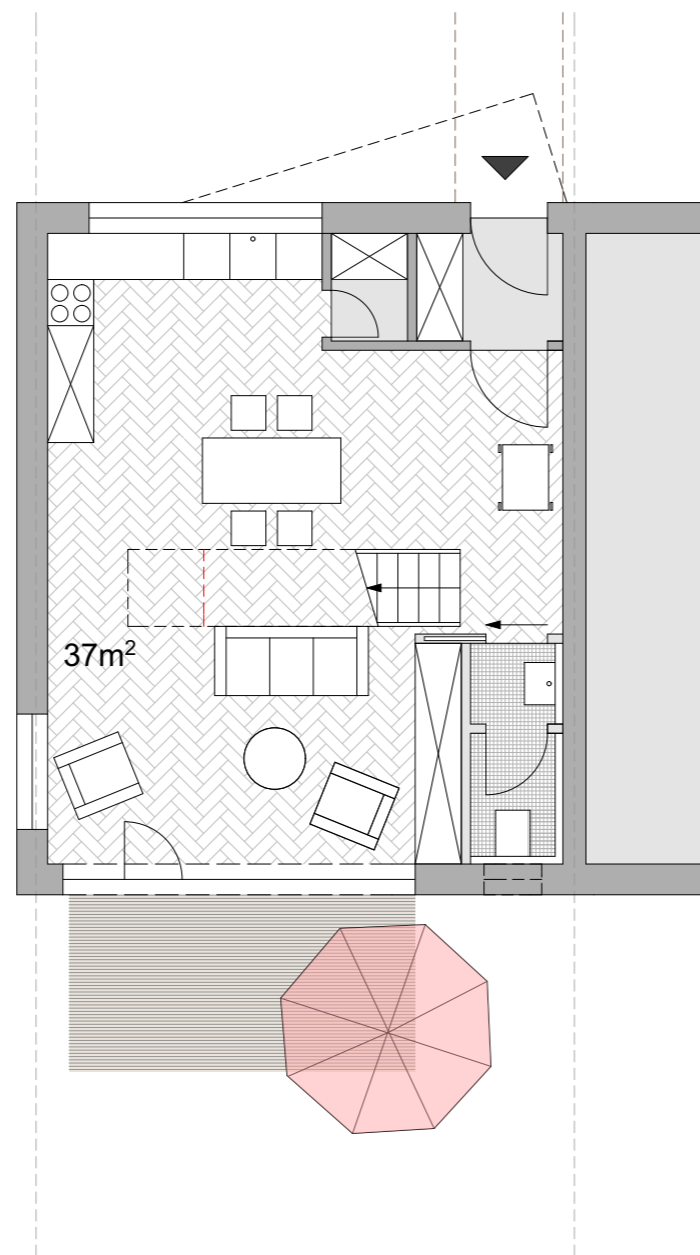


Tip A_04 Prizemlje

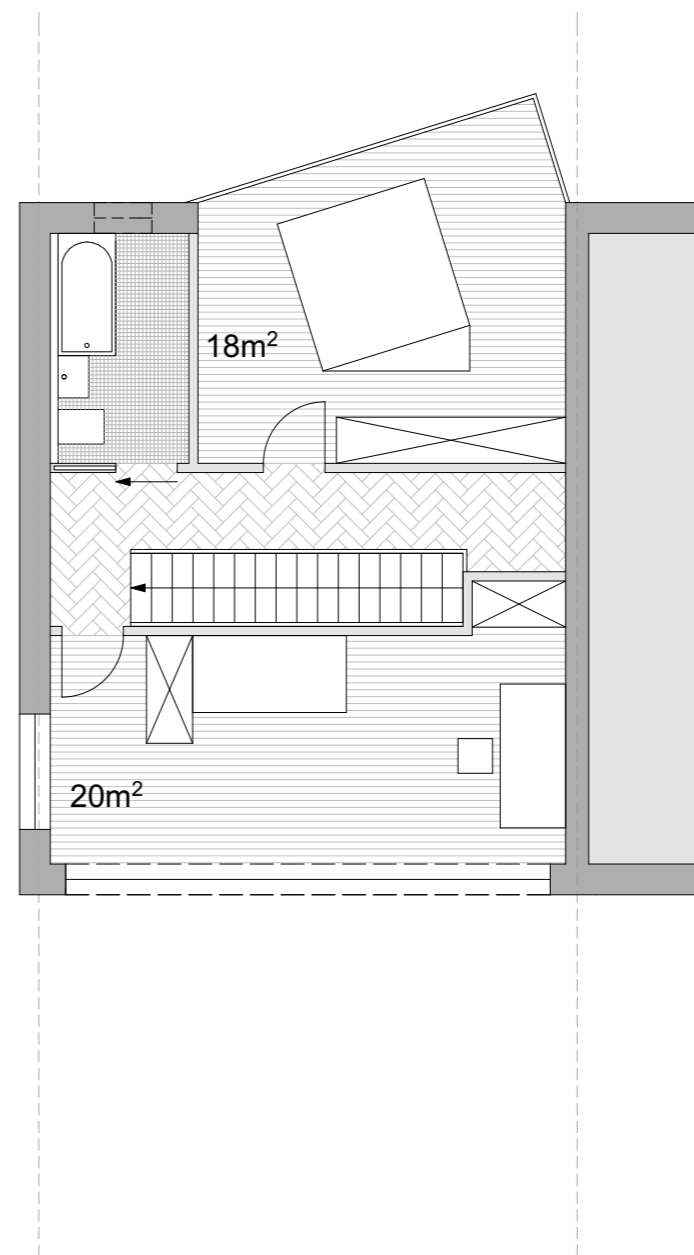


Tip A_04 1. Kat

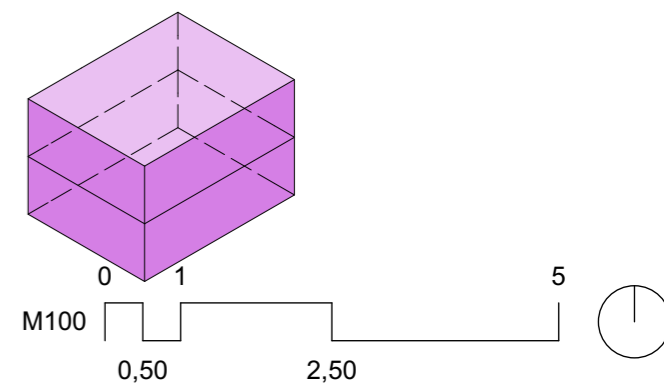


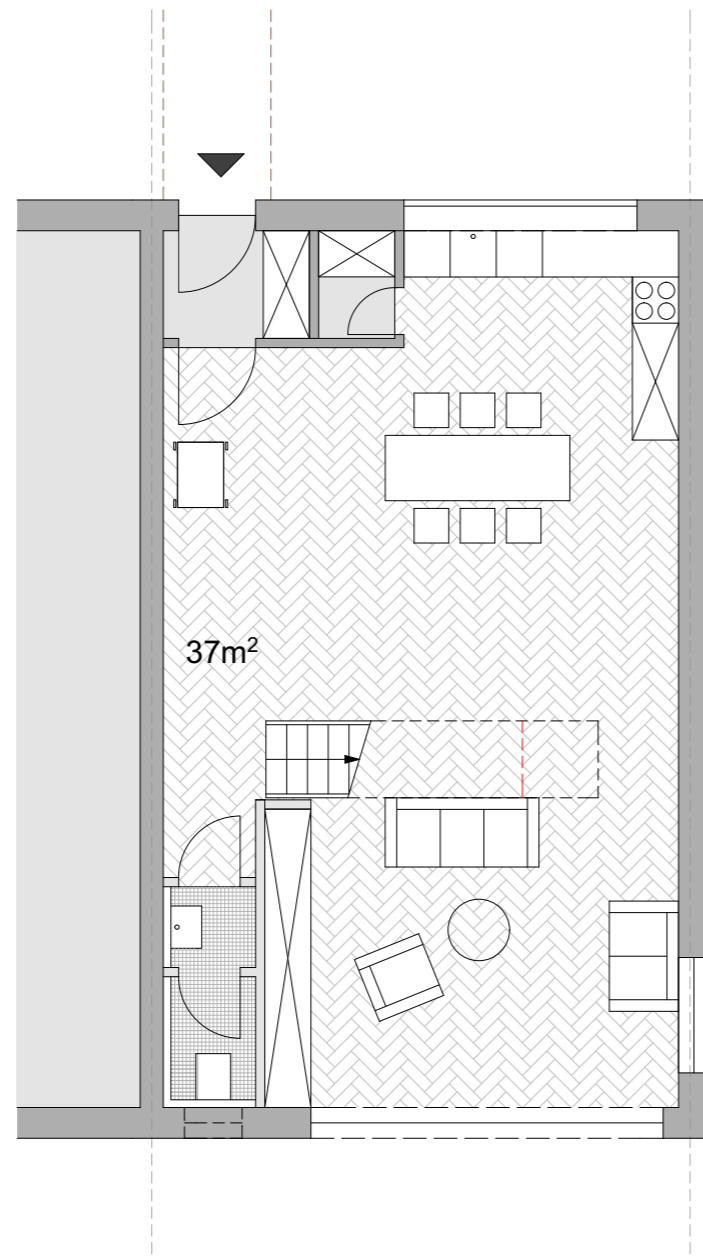


Tip A_05 Prizemlje

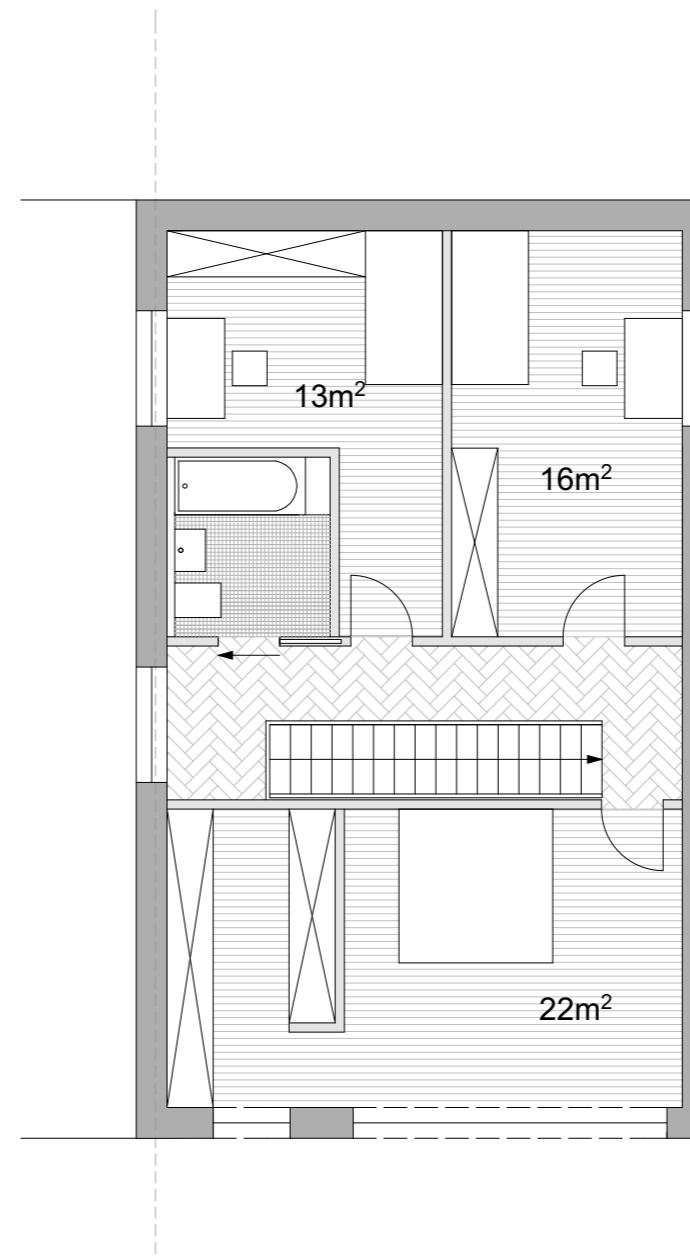


Tip A_05 1. Kat

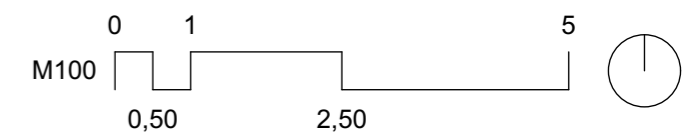
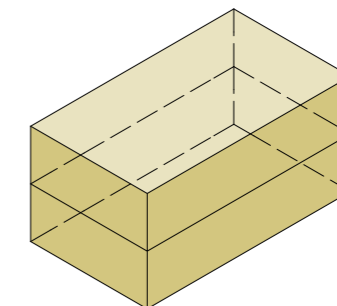




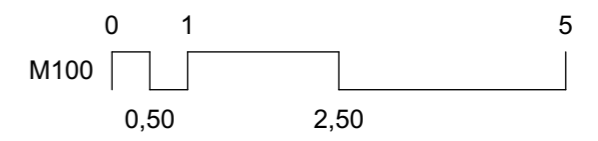
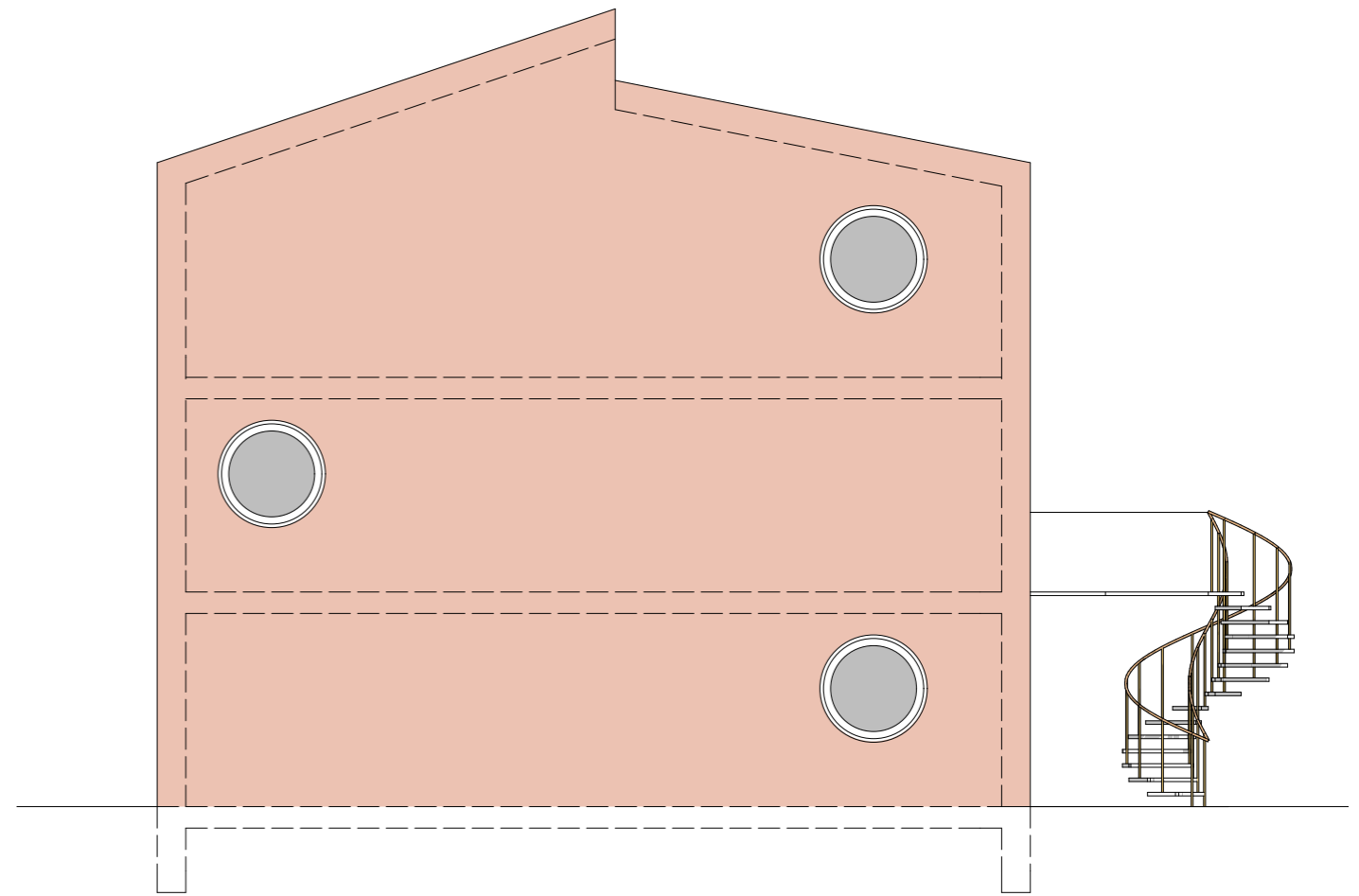
Tip A_06 Prizemlje



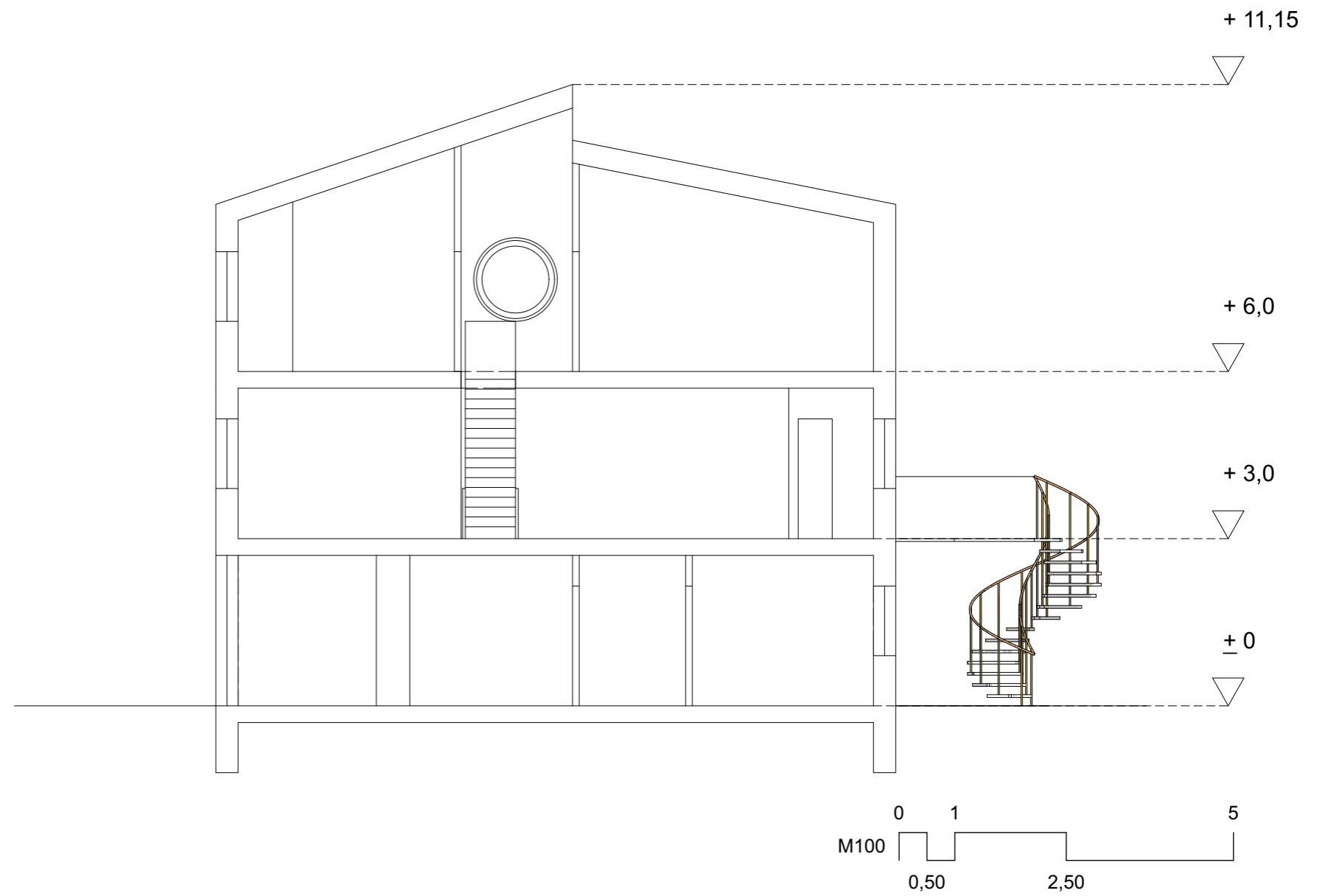
Tip A_06 1. Kat



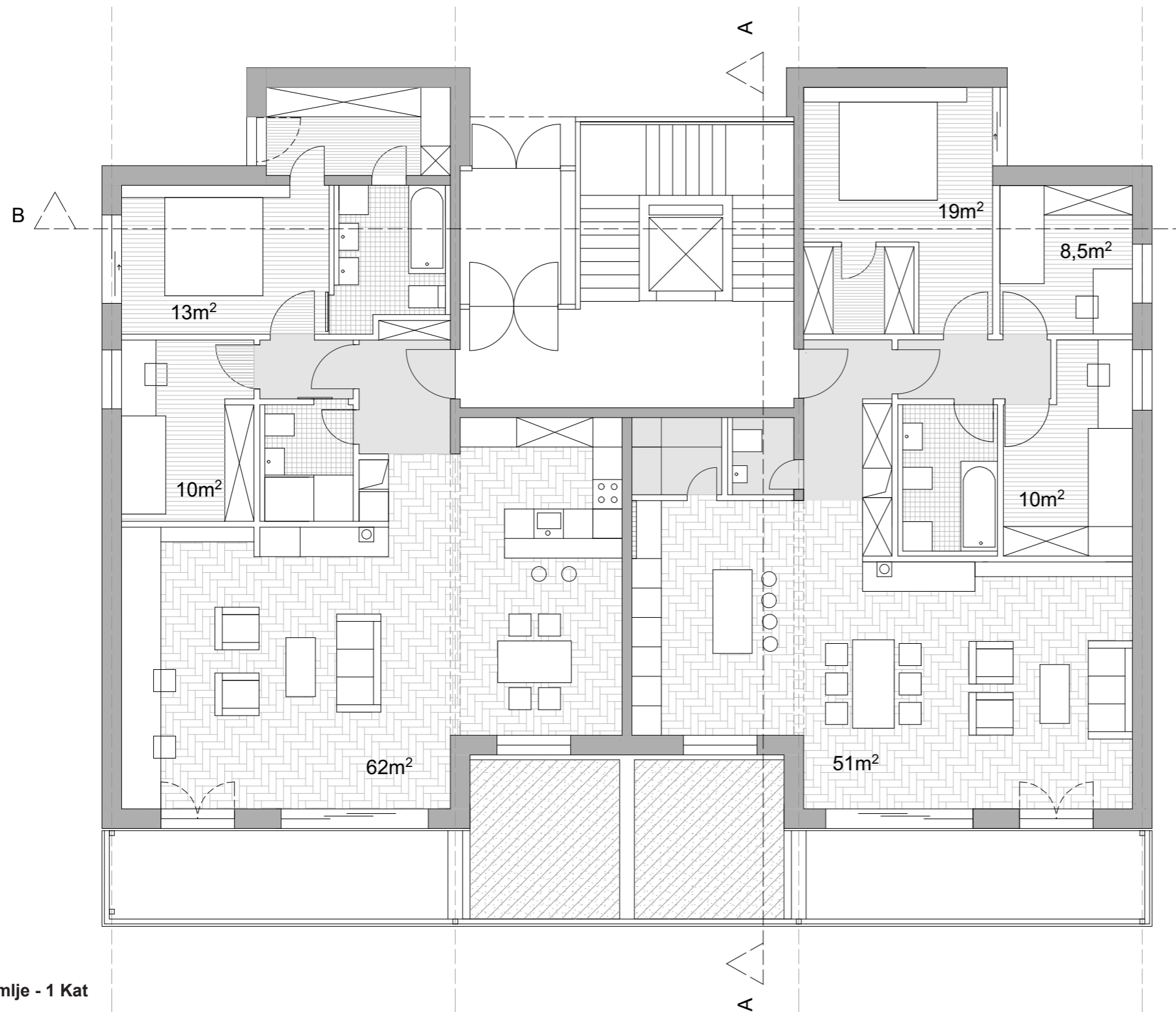
Tip A_02 Južna i istočna fasada_M100



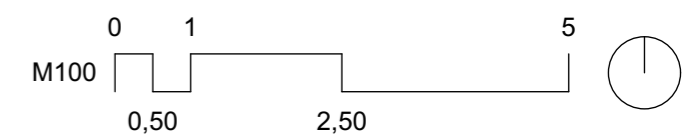
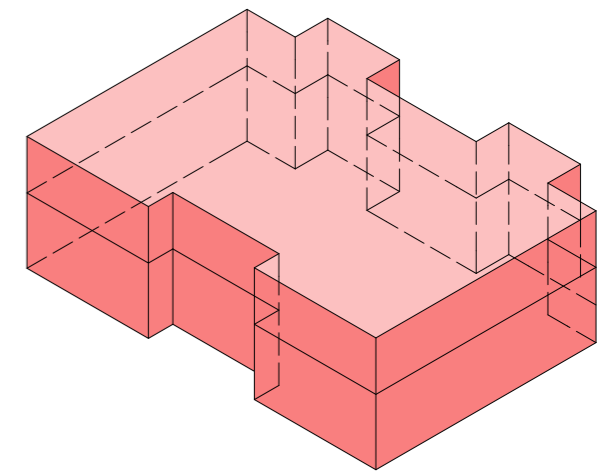
Tip A_02 Presjek AA_M100



Tlocrti Tip B_M100

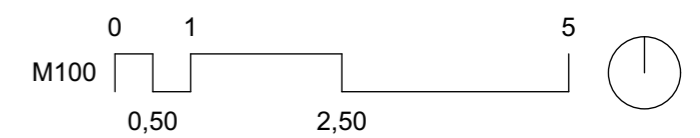
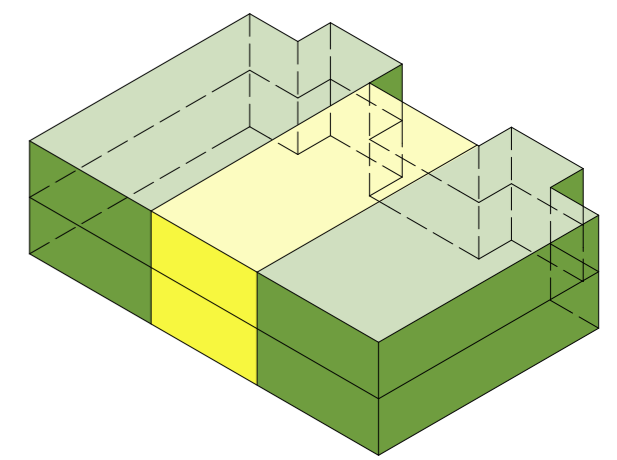


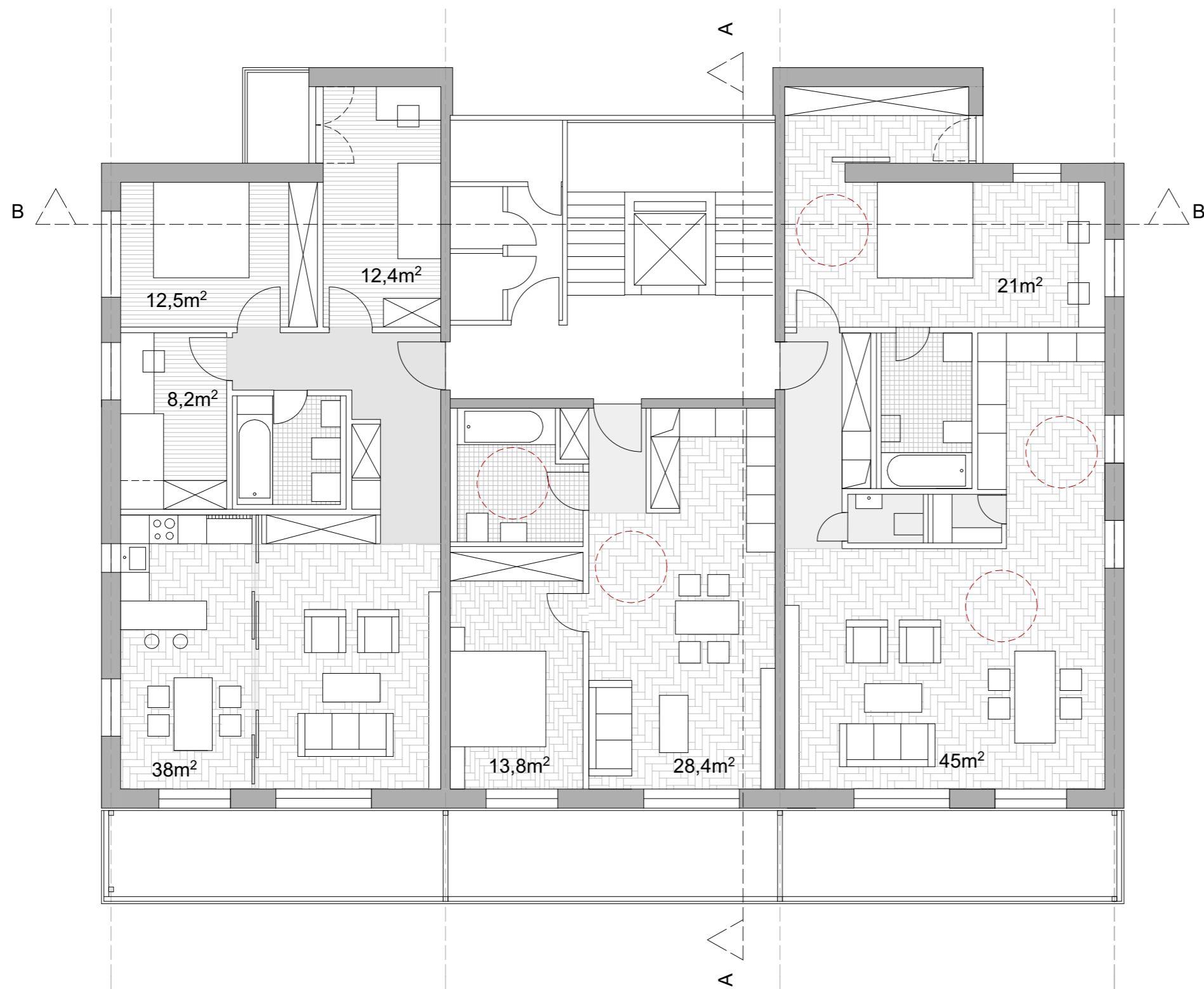
Prizemlje - 1 Kat



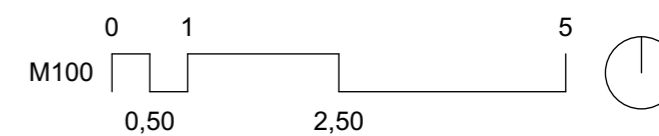
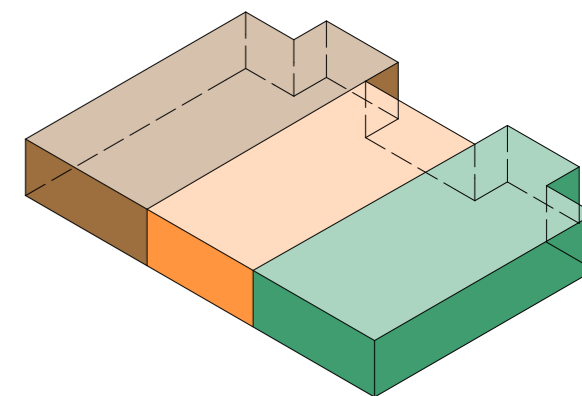


2. - 3 Kat

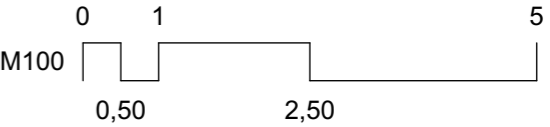




4 Kat

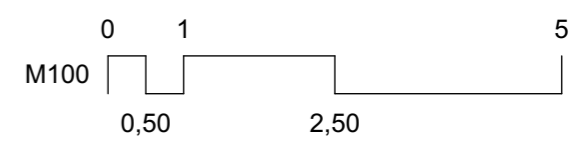


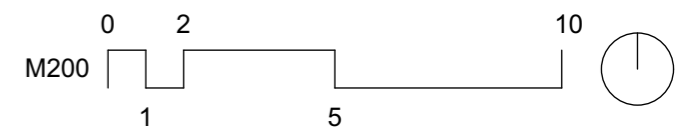
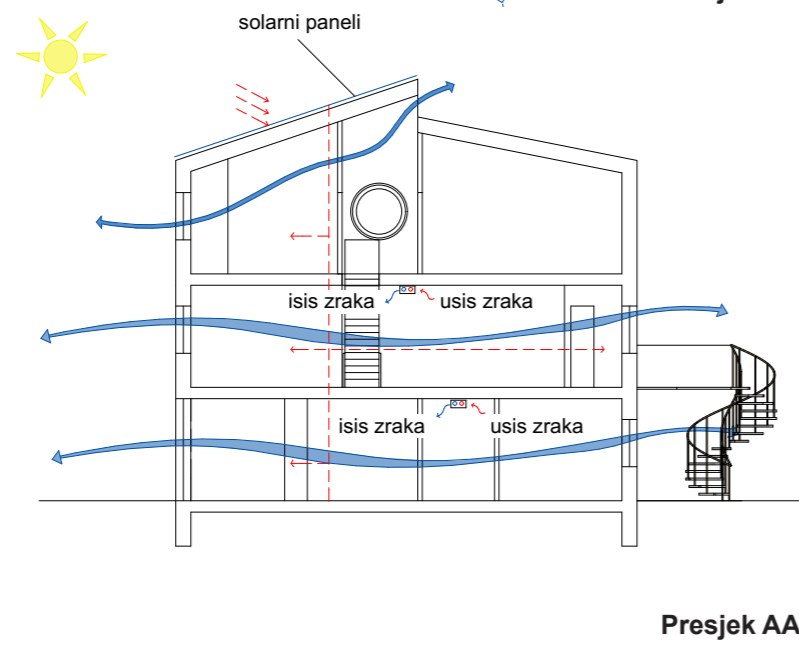
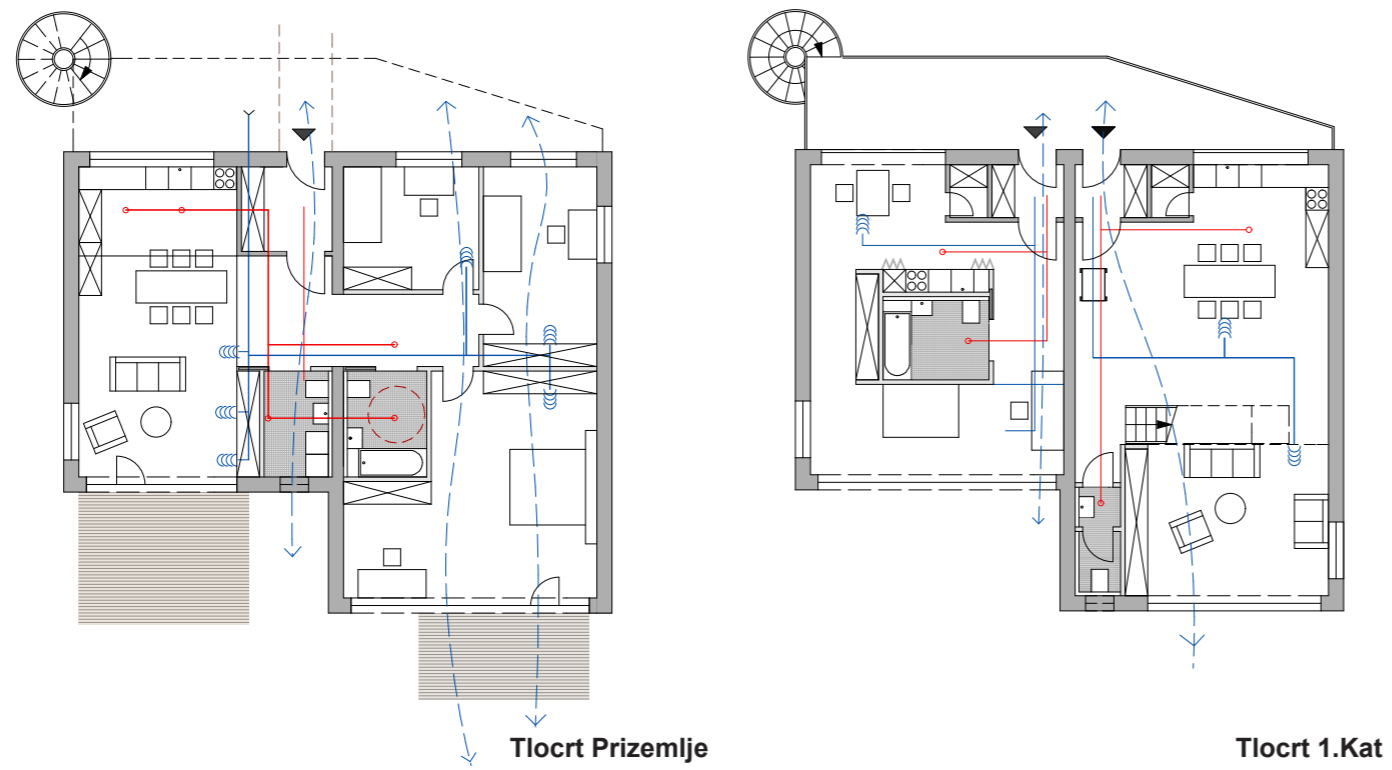
Tip B_Južna fasada_M100



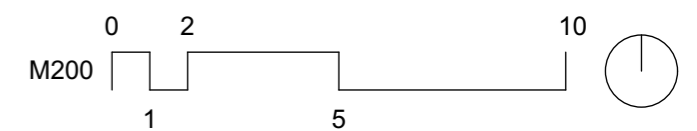
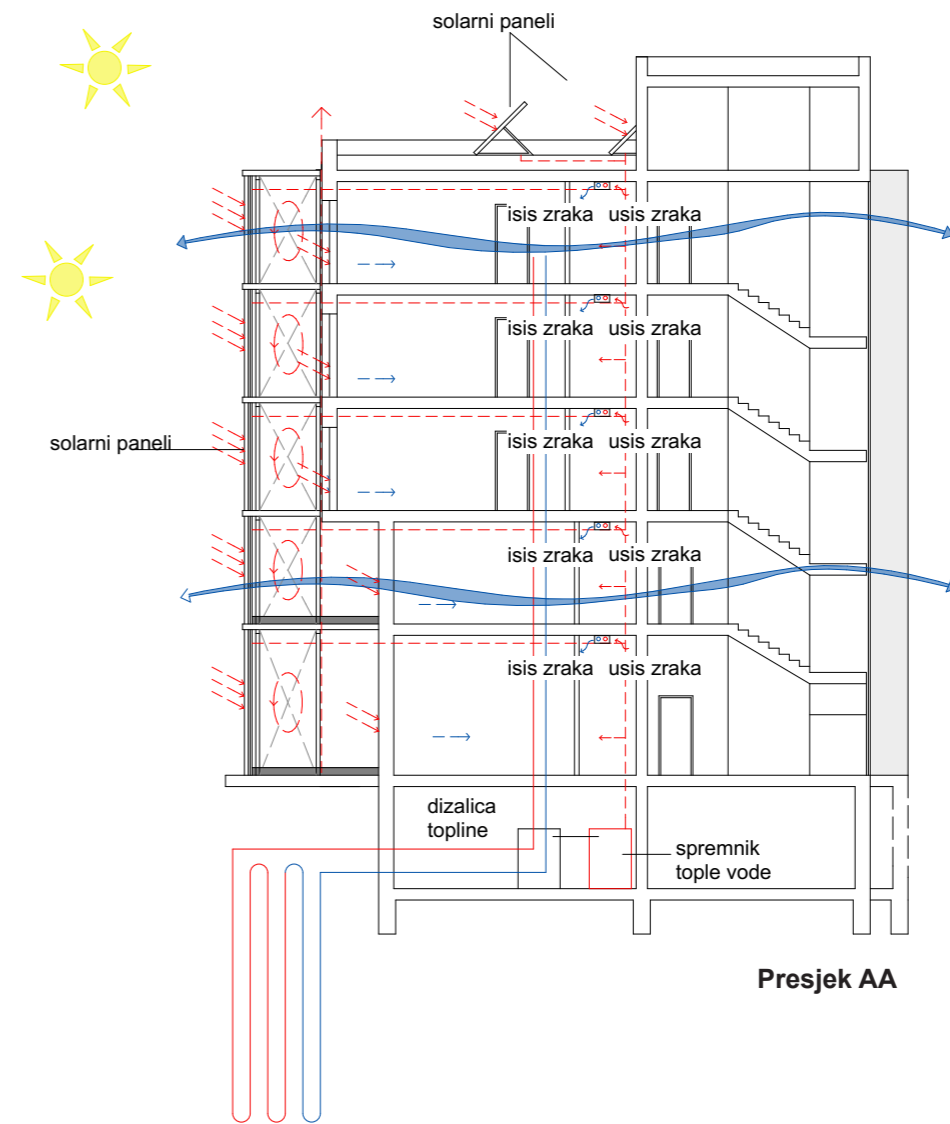
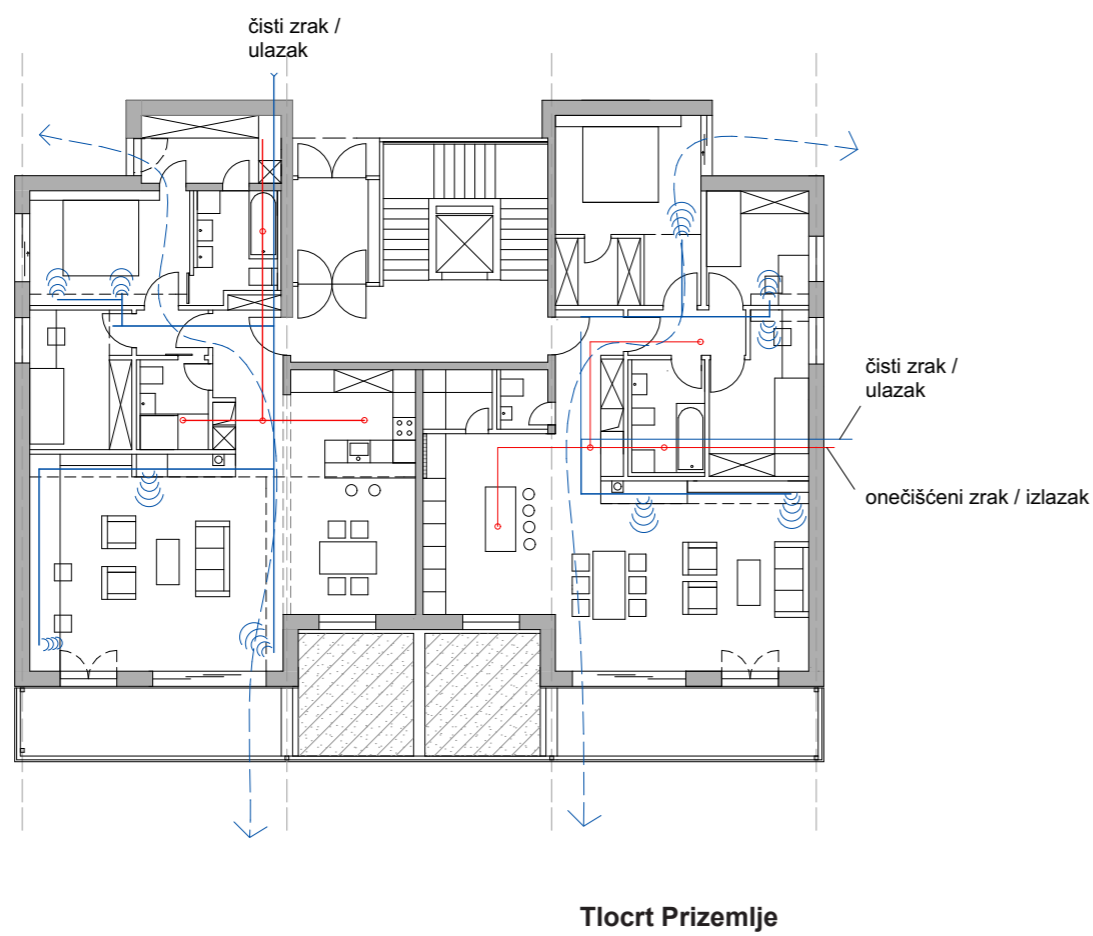


Tip B_Presjek BB_M100

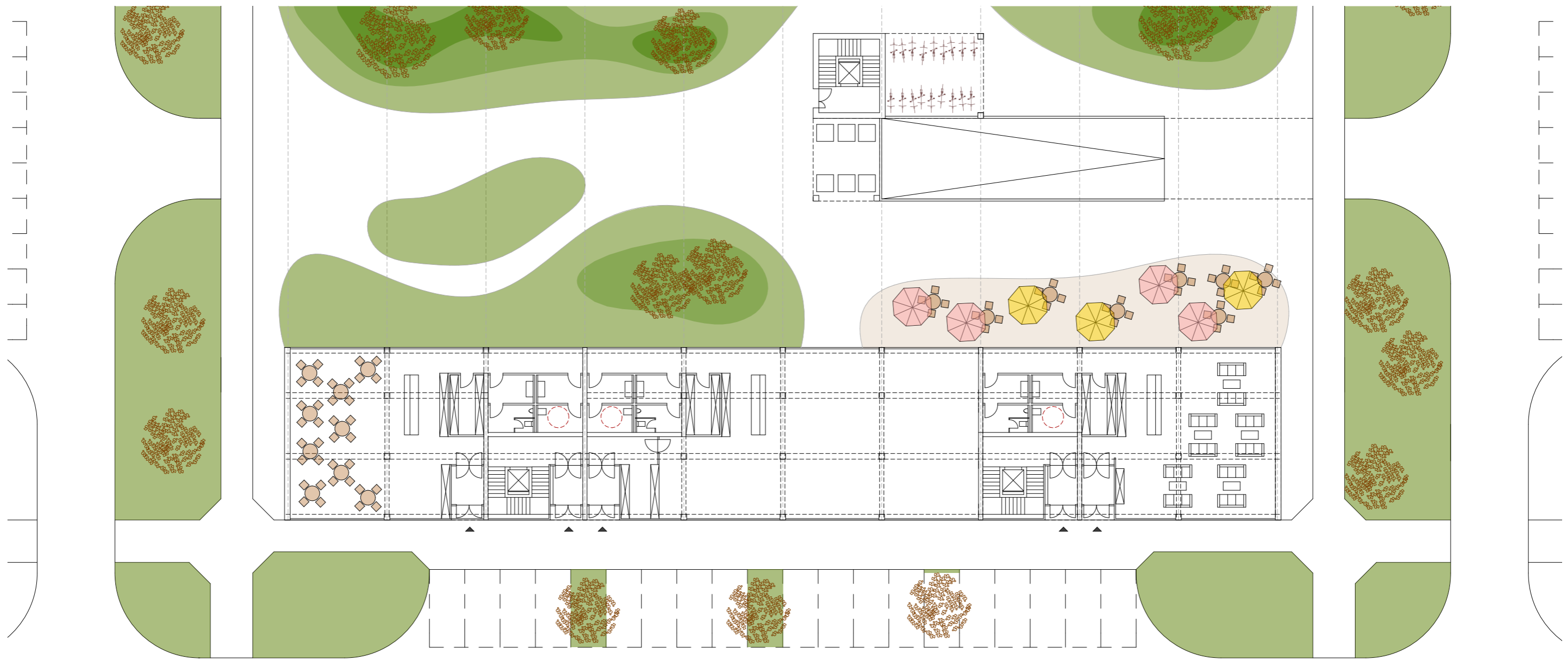




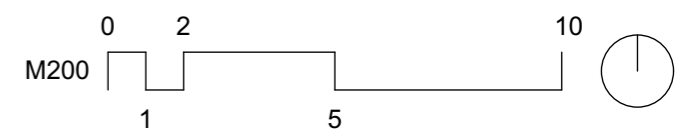
Energetika Tip B_M200



Tlocrt Tip C_Plott 01_M200

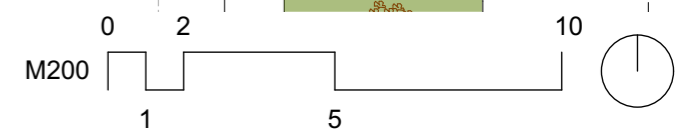


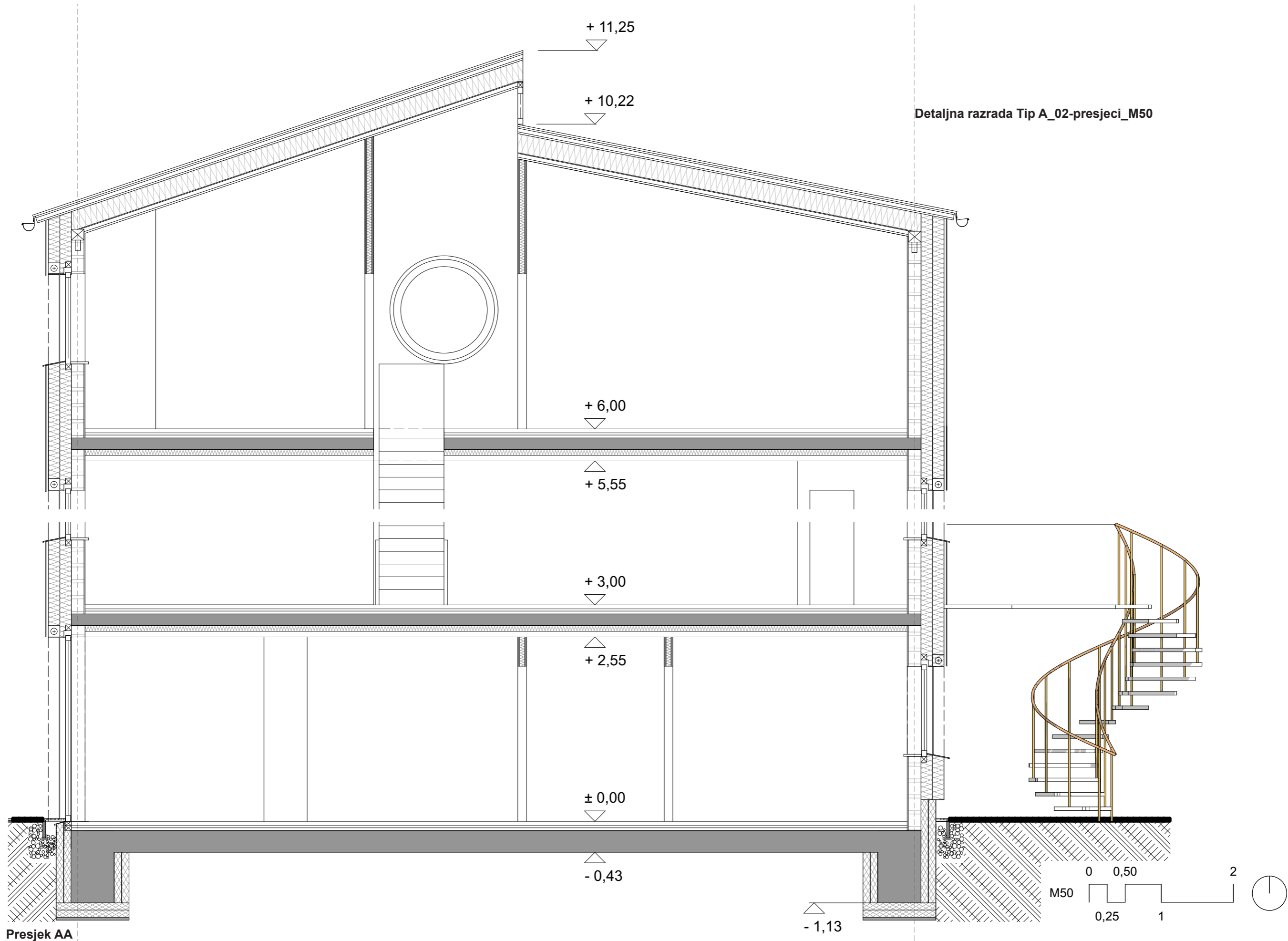
Prizemlje Plot 02

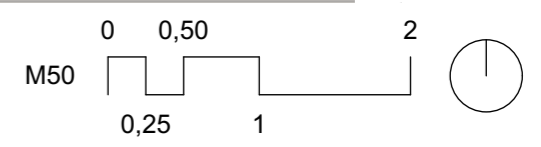
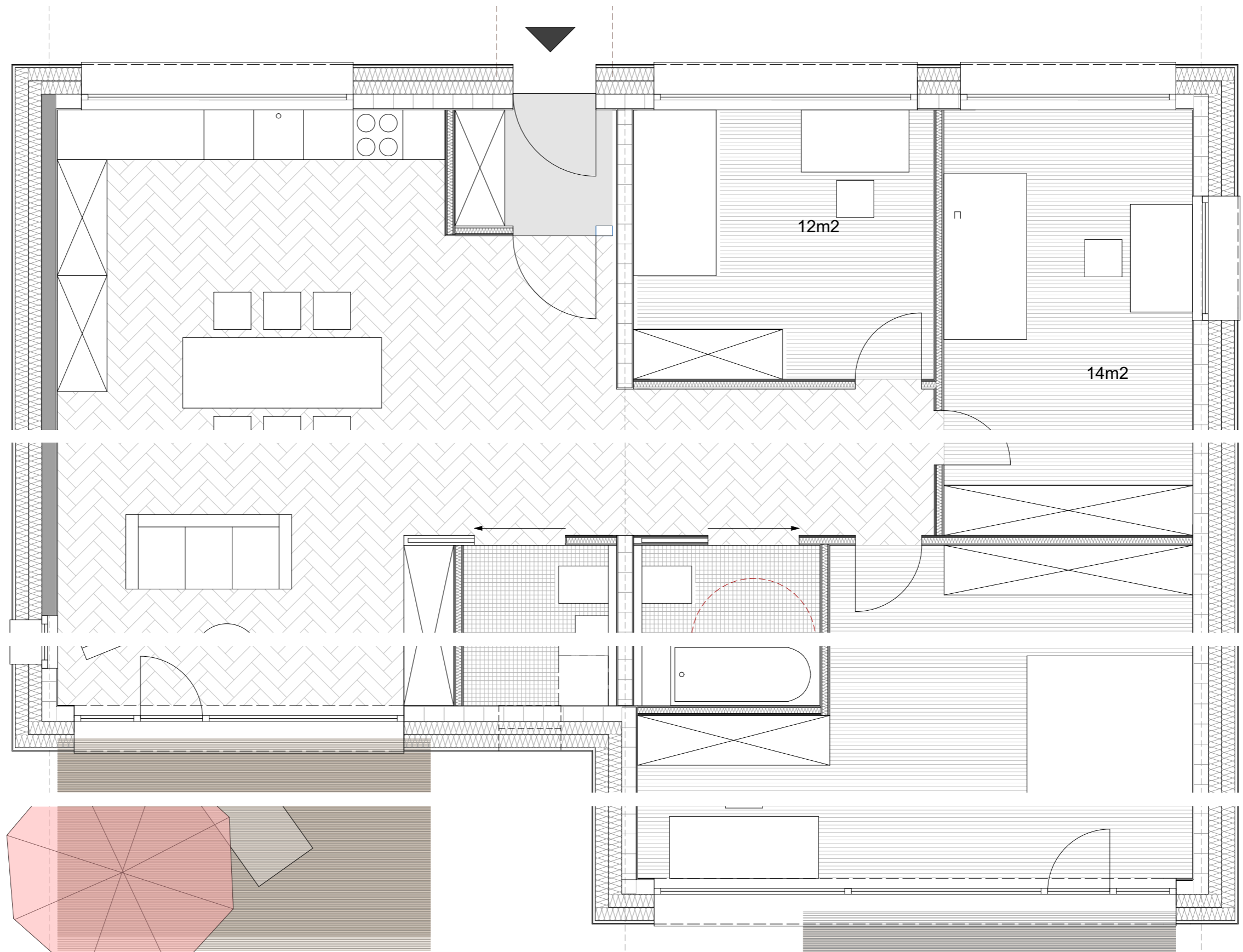




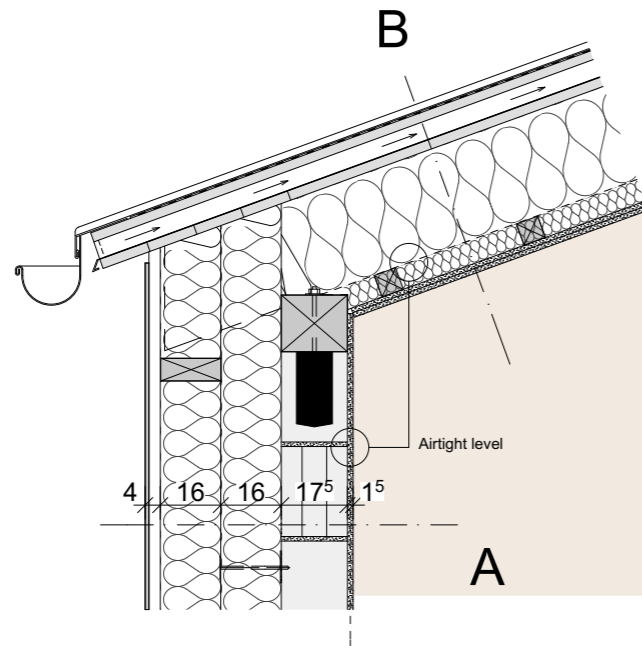
Prizemlje Plot 02







Detalji Tip A_02_M20



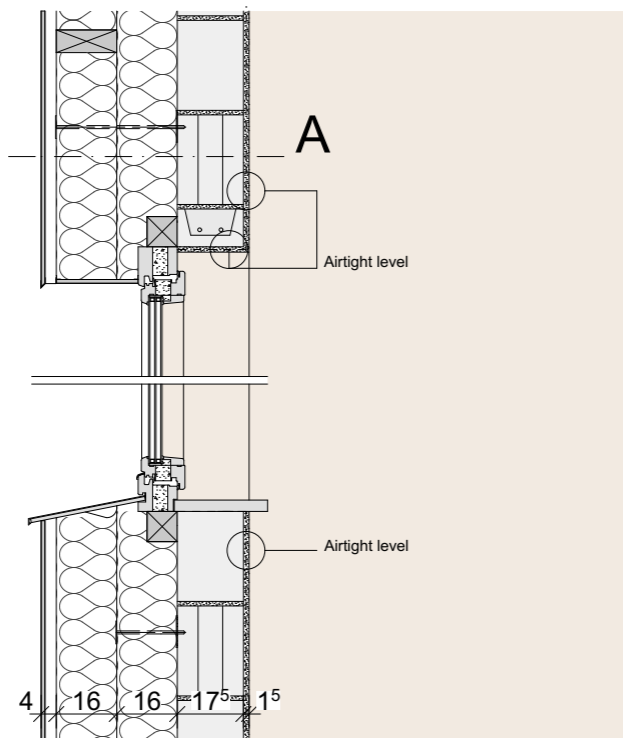
Monopitch roof structure (solid timber rafters) Eaves

Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (wood)

Build-up B in cm

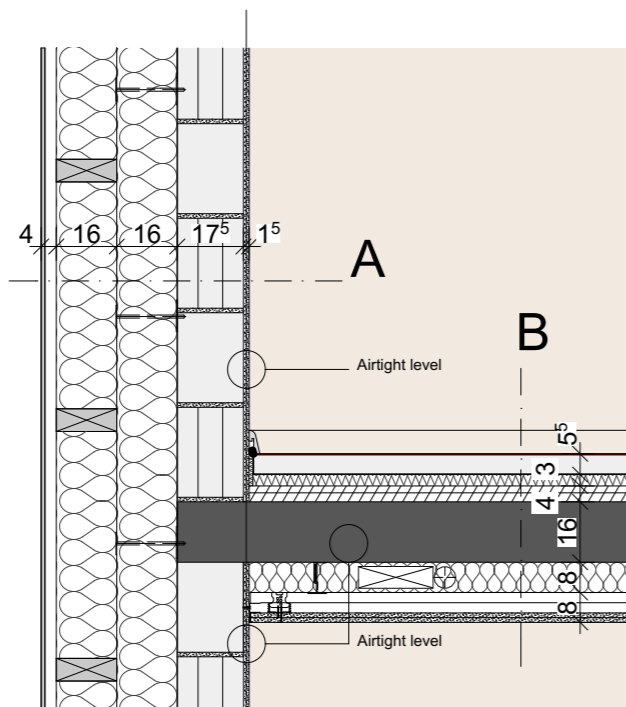
- Metal sheet covering
- Sealing sheeting
- 2,4 Solid timber panelling
- 5,0 Counter battens 5/8
- ISOVER Integra ZUB underlay sheeting
- 2,4 Solid timber panelling
- 26,0 ISOVER Integra ZKF 1-032 between rafters 6/26 e=80cm, 13% wp
- ISOVER VARIO KM Duplex UV
- 6,0 ISOVER Integra UKF 1-032 (wood 6/6 e=50cm, 11% wp)
- 2,5 Rigips Rigidur H double layer, each layer 12.5 mm



Solid construction with RVF External wall, window

Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (plastic)



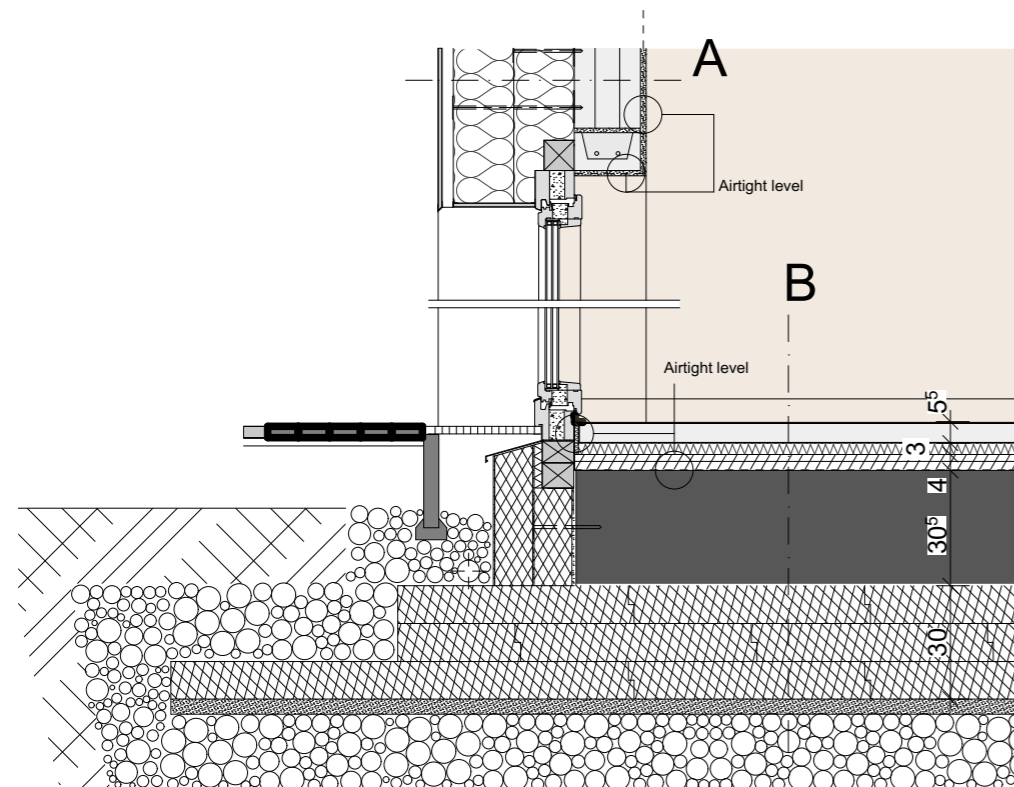
Solid construction with RVF External wall, intermediate ceiling

Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (wood)

Build-up B in cm

- Floor covering
- 5,0 Screed
- Separating layer
- 3,0 ISOVER Akustic EP 3
- 4,0 ISOVER Exporit EPS 100/035 as compensation for height of tube
- 16,0 Reinforced concrete ceiling
- 8,0 Installation level with ISOVER Akustik TP 1
- 2,7 Rigips ceiling profile CD 60/27 as basic profile
- 2,7 Rigips ceiling profile CD 60/27 as supporting profile
- 2,5 Rigips Rigidur H double layer, each layer 12.5 mm



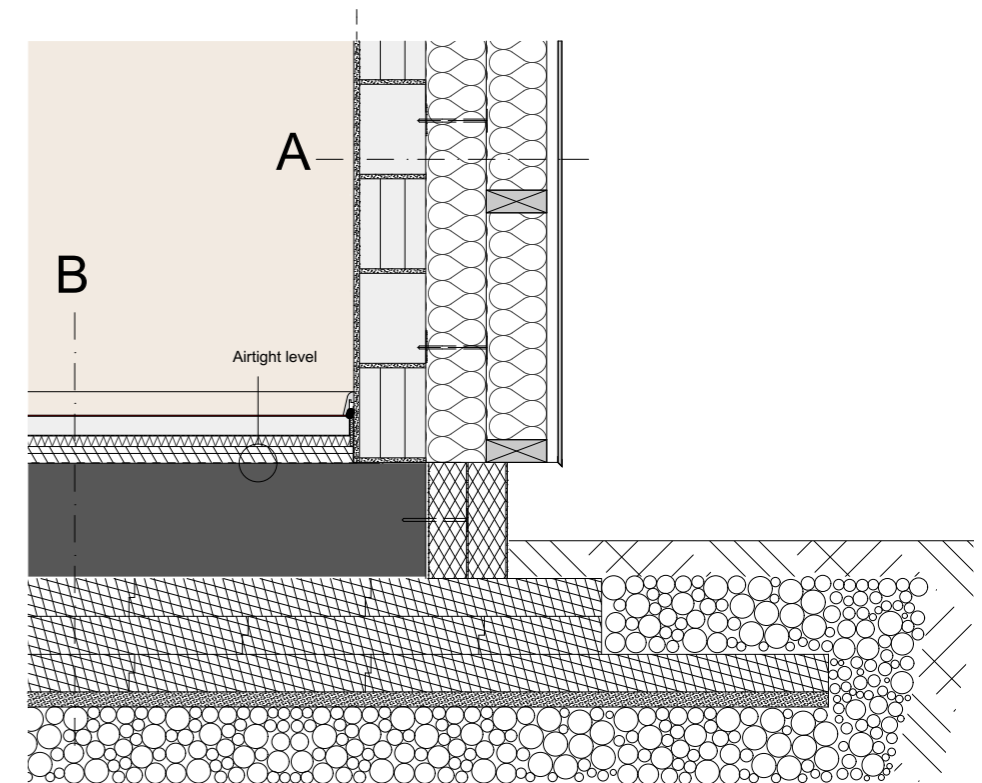
Solid construction with RVF Foundation - Patio door

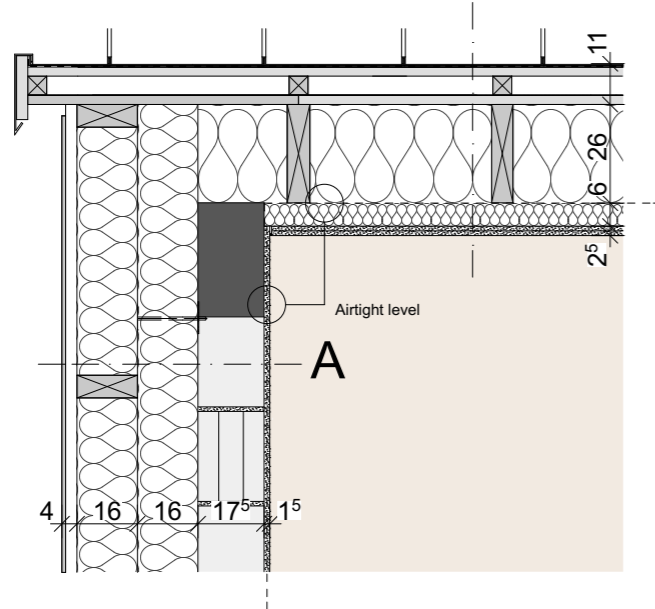
Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (e.g. wood, metal, plastic, stone)

Build-up B in cm

- Floor covering
- 5,0 Screed
- Vapour retarder and separating layer
- 3,0 ISOVER Akustic EP 3 040
- 4,0 ISOVER Exporit EPS 100/035 as compensation for height of tube
- 0,5 Sealing against moisture
- 30,0 Concrete foundation slab
- Separating layers
- 10,0 Styrodur CS
- 10,0 Styrodur CS
- 10,0 Styrodur CS
- Granular subbase





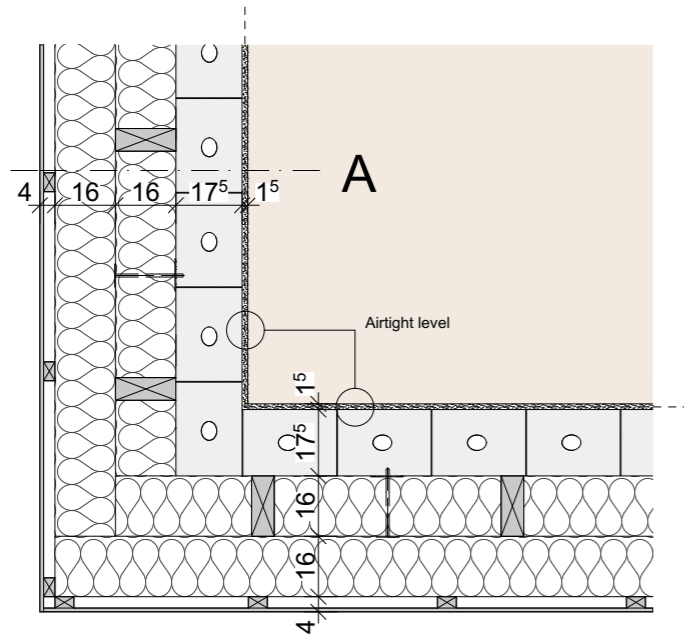
Monopitch roof structure (solid timber rafters) Verge

Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (e.g. wood, metal, plastic, stone)

Build-up B in cm

- Metal sheet covering
- Sealing sheeting
- 2,4 Solid timber panelling
- 5,0 Counter battens 5/8
- ISOVER Integra ZUB underlay sheeting
- 2,4 Solid timber panelling
- 26,0 ISOVER Integra ZKF 1-032 between rafters 6/26 e=80cm, 13% wp
- ISOVER VARIO KM Duplex UV
- 6,0 ISOVER Integra UKF 1-032 (wood 6/6 e=50cm, 11% wp)
- 2,5 Rigips Rigidur H double layer, each layer 12.5 mm



Solid construction with RVF Outer edge of the external wall (horizontal cut)

Build-up A in cm

- 1,5 Interior plaster
- 17,5 Lime-sandstone KSR 6 DF (175)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical 6/16 e=60cm)
- 16,0 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal 6/16 e=120cm)
- 3,0 Rear ventilation
- 1,0 Exterior cladding (wood)

